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National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058

ORIGINAL CONTAINS
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(NASA-CR-151410) RESULTS OF TEST OH69 OBTAINED IN THE AEDC VKF HYPERSONIC TUNNEL B USING THE INFRARED SCANNING METHOD TO OBTAIN HEAT TRANSFER DATA ON THE 0.040 SCALE MODEL 82-0 OF THE SPACE SHUTTLE FOREBODY, VOLUME 1 00/16

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SPACE SHUTTLE AEROTHERMODYNAMIC DATA REPORT

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VOLUME 1 OF 2

RESULTS OF TEST OH69 OBTAINED IN THE AEDC VKF HYPERSONIC TUNNEL B USING THE INFRARED SCANNING METHOD TO OBTAIN HEAT TRANSFER DATA ON THE 0.040 SCALE MODEL 82-0 OF THE SPACE SHUTTLE FOREBODY

by

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Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Michoud Defense-Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number:	AEDC HWTB V41B - E9A
NASA Series Number:	OH69
Model Number:	82-0
Test Dates:	November 14 through December 11, 1975
Occupancy Hours:	84

FACILITY COORDINATOR:

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Chrysler Corporation Michoud Defense-Space Division assumes no responsibility for the data presented other than display characteristics.

RESULTS OF TEST OH69 OBTAINED IN THE AEDC VKF HYPERSONIC TUNNEL B USING THE INFRARED SCANNING METHOD TO OBTAIN HEAT TRANSFER DATA ON THE 0.040 SCALE MODEL 82-0 OF THE SPACE SHUTTLE FOREBODY

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ABSTRACT

Heat-transfer tests were performed on 4 percent scale models of the Space Shuttle orbiter forebody during November and December, 1975 to determine the influence of thermal protection tile roughness on windward surface boundary-layer transition. The tile roughness was produced by tile surface mismatch and by gaps between the tiles. Combinations of gap width and tile height were tested and the influence of tile axial location was investigated. Tile heights ranged from -0.20 in. (cavity) to 0.025 in. (protuberance) with gap widths from 0 to 0.020 in.

All data were obtained at Mach number 8 at angles of attack of 30 and 40 degrees at free-stream Reynolds numbers ranging from 0.5×10^6 to 3.5×10^6/ft. Tests were performed at the von Karman Facility's Hypersonic Wind Tunnel B and all data were obtained with an infrared scanning system.

Tabulated and plotted data resulting from these tests and corresponding test information are presented in this report.

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TABLE OF CONTENTS

	PAGE
ABSTRACT	iii
INDEX OF MODEL FIGURES	2
NOMENCLATURE	3
CONFIGURATIONS INVESTIGATED	6
INSTRUMENTATION	8
TEST FACILITY DESCRIPTION	10
TEST PROCEDURE	11
DATA REDUCTION	12
REFERENCES	15
TABLES	
I. TEST CONDITIONS	16
II. DATA SET/RUN NUMBER COLLATION SUMMARY	17
III. MODEL DIMENSIONAL DATA	20
IV. COLOR/TEMPERATURE CORRELATION FOR COLOR PHOTOGRAPHS	22
FIGURES	
MODEL	23
APPENDICES	
A. SAMPLE INFRARED COLOR PHOTOGRAPHS - VOLUME 1	
B. BLACK AND WHITE INFRARED PHOTOGRAPHS - VOLUME 1	
C. TABULATED SOURCE DATA	
VOLUME 1 GROUPS 1-147	
VOLUME 2 GROUPS 148-290	

INDEX OF MODEL FIGURES

Figures	Title	Page
1.	Axis systems.	23
2.	Model sketches.	
	a. Model Geometry	24
	b. Tile Cluster Locations	25
	c. Tile Installation Details	26
	d. Tile Identification Sketch	27
	e. Schematic of Model Installation	28
	f. Schematic of Data System	29
	g. Model Material Properties	30
3.	Model photographs.	
	a. Model Installation in Tunnel B	31
	b. Tile Installation for Configuration 7	32

NOMENCLATURE

SYMBOL	MNEMONIC	DEFINITION
C_P		model material specific heat, BTU/lb-^{o}R
GAP	GAP	space between tiles, in.
HT., K	K	tile height measured from basic model surface, in.
H(TO)	H(TO)	heat-transfer coefficient based on TO, BTU/ft^2-sec-^{o}R $H(TO) = \beta\sqrt{\rho C_P k} \,/\, \sqrt{DELT}$ where β is obtained from $\frac{TW-TI}{TO-TI} = 1 - e^{\beta^2}(1 - \mathrm{erf}\ \beta)$ and where DELTIME $\approx$ elapsed exposure time, sec
H(NTO)		heat-transfer coefficient based on NTO, BTU/ft^2-sec-^{o}R where N = 0.85, 0.90, 1.00 or $N = 0.867 + 0.133 \sin^{1.55}\alpha$
HREF	HREF	reference heat-transfer coefficient based on Fay-Riddell theory, BTU/ft^2-sec-^{o}R $HREF = \left[\frac{8.139\ (PO1)^{0.5}(MU\text{-}0)^{0.4}(1\text{-}PINF/PO1)^{0.25}}{(RN)^{0.5}\ (TO)^{0.15}}\right] X$ $[0.2235 + 0.0000135\ (TO + 560)]$
INJECT TIME		time required for model to reach tunnel centerline, sec
IR		infrared

NOMENCLATURE (Continued)

SYMBOL	MNEMONIC	DEFINITION
k		model material thermal conductivity, BTU/ft-sec-^{o}R
ℓ	L	reference length, 4.311 ft.
M_∞	MACH NO.	free-stream Mach number
N		recovery factor
P_∞	P-INF	free-stream static pressure, psia
PO	PO	tunnel stilling chamber pressure, psia
PO1	PO1	stagnation pressure downstream of a normal shock, psia
q_∞	Q-INF	free-stream dynamic pressure, psia
RE/ft	RE/FT	free-stream Reynolds number, ft^{-1}
REK	REK	Reynolds number based on tile height, $REK = RE/ft \frac{K}{12}$
REX	REX	Reynolds number based on tile location, REX = RE/ft) (X)
RN		reference nose radius, 0.040 ft.
ρ_∞	RHO-INF	free-stream density, $slugs/ft^3$
T/C		thermocouple
T1-T8		temperature indicated by thermocouples located in the model copper nose, ^{o}R
T9-T10		infrared reference target temperature, ^{o}R
T_I	TI	initial model wall temperature, ^{o}R
T_W	TW	model wall temperature measured by IR camera, ^{o}R

NOMENCLATURE (Concluded)

SYMBOL	MNEMONIC	DEFINITION
T-INF, T_∞	T-INF	free-stream static temperature, ^{o}R
TO	TO	tunnel stilling chamber temperature
TOTAL TIME, t	T	time from start of model injection, sec.
V-INF, V_∞	V-INF	free-stream velocity, ft/sec
X	X	model station measured from nose, in.
X/ℓ	X/L	model station as a fraction of fuselage length
YAW		model yaw angle, deg.
α		model angle of attack with sting correction added, deg.
α_{NOM}	ALPHA-NOM	nominal angle of attack, deg.
α_u		model angle of attack without sting correction, deg.
β		temperature parameter on sideslip angle, deg. as defined in context
ρ	RHO	model material density, slug/ft^3
μ_o	MU-O	air viscosity based on TO, lb_f-sec/ft^2
μ_∞	MU-INF	free-stream air viscosity, lb_f-sec/ft^2

CONFIGURATIONS INVESTIGATED

The models were 0.040-scale representations of the forward half of the Space Shuttle Orbiter Configuration 140C. Figure 2a shows the general layout of the models while Figure 3a illustrates a model installed in the wind tunnel. This model configuration consisted of components B_{60} and C_{10} as described in Table III.

Models were cast from Lockheed Proprietary Material "LH." Nickel-plated copper noses and stainless steel tile sections were attached to the forward part of the "LH" casting. Tiles were nominally 0.250-in. square and oriented as shown in the photograph in Figure 3b.

Configuration identifications are as follows:

Configuration Number	Tile Location, X/ℓ
6	0.050
7	0.111
8	0.175

The reference length, ℓ, is 4.311 ft.model scale, (based on a full-scale length of 107.775 ft.). Three clusters of tiles were simulated and each cluster had four movable tiles. The movable tiles could be moved vertically with shims to produce a depression or a protuberance. Alternate tiles could be installed to change the gap between tiles. Figures 2b and c show the tile cluster locations and the movable tile installation, respectively. The tile identification numbers are shown in Figure 2d. Tiles moved during this test series were as listed below:

CONFIGURATIONS INVESTIGATED (Concluded)

CONFIGURATION NUMBER	TILES MOVED
6	6, 15, 25
7	36, 45, 55
8	66, 75, 85

Reference lines were painted on the model with an aluminum pigmented silicon paint. The paint bands were approximately 0.200-in. wide and had an emissivity lower than material "IH." Consequently, the lines appeared as visible cool bands on the infrared monitoring video screens and as points of apparent lower heating on the reduced digital data.

Chromel-constantan thermocouples were installed in the copper nose section to monitor the forebody temperature ahead of the tiles during the test runs. Thermocouple locations were as shown below:

THERMOCOUPLE NUMBER	X/L LOCATION		
	CONFIGURATION NUMBER 6	CONFIGURATION NUMBER 7	CONFIGURATION NUMBER 8
1	0.005	0.005	0.005
2	0.010	0.010	0.010
3	0.020	0.020	0.020
4	0.030	0.030	0.030
5	---	0.050	0.050
6	---	0.080	0.080
7	---	---	0.110
8	---	---	0.140

INSTRUMENTATION

A layout of the infrared scanning system installation in Tunnel B is shown schematically in Figure 2e. A Thermovision 680 scanning camera manufactured in Sweden by the AGA Corp. was used in the VKF system. The camera scanned at a rate of 16 frames per second and detected infrared radiation in the bandwidth between 2 and 5 μ. Data were recorded on analog tape and simultaneously displayed in real time on both color and black and white video screens. Beginning at data Group Number 76, model centerline data were also transmitted directly to a CDC 160 digital computer for on-line reduction.

Prior to the test, the camera was calibrated in the laboratory with a commercial black-body source. After the camera, mirror, and Irtran® window were installed in the wind tunnel, check calibrations were performed through the entire system to verify the transmittance of the window-mirror combination. These check calibrations were performed periodically during the test to insure that the system was stable. No significant variation in the calibration was noted during the test.

Tunnel B stilling chamber pressure was measured with a 100 or 1000 psid transducer (depending on pressure level) referenced to a near vacuum. Based on periodic comparisons with secondary standards, the uncertainty (a bandwidth which includes 95-percent of residuals) of the transducers was estimated to be within ±0.1 percent of reading or ±0.06 psi whichever was greater for the 100-psid range and ±0.1 percent of reading or ±0.5 psi whichever was greater for the 1000 psid range.

INSTRUMENTATION (Concluded)

Stilling chamber temperature measurements were made with Chromel®-Alumel® thermocouples which had an uncertainty of ±(1.5°F + 0.375 percent of reading) based on repeat calibrations.

TEST FACILITY DESCRIPTION

The AEDC VKF Tunnel B is a closed-circuit hypersonic wind tunnel with a 50-in. dia. test section. Two axisymetric contoured nozzles are available to provide Mach numbers of 6 and 8 and the tunnel may be operated continuously over a range of pressure levels from 20 to 300 psia at M_∞ = 6, and 50 to 900 psia at M_∞ = 8, with air supplied by the VKF main compressor plant. Stagnation temperatures sufficient to avoid air liquefaction in the test section (up to 1350°R) are obtained through the use of a natural gas fired combustion heater. The entire tunnel (throat, nozzle, test section, and diffuser) is cooled by integral, external water jackets. The tunnel is equipped with a model injection system, which allows removal of the model from the test section while the tunnel remains in operation. A description of the tunnel may be found in the Test Facilities Handbook (Reference 3).

TEST PROCEDURE

Prior to each run, the model was cooled to a uniform initial model temperature of approximately 530°R. Early in the test a jet of cold air was used for cooling, but this procedure was slow and did not cool uniformly. More effective cooling was accomplished by flowing cool water over the model surface. Model surface temperature was obtained with a thermocouple held in contact with the surface and a representative measurement from the contact thermocouple was used as the initial temperature for data reduction.

The cooled model was then injected into the tunnel flow at the desired angle of attack. Data were continuously recorded on analog tape from the time the model was injected into the freestream until the color pattern on the video screen was fully developed. As the color pattern approached full development, a line of 70 points along the model centerline was digitized and transmitted to the CDC 160. This procedure insured that a sufficient temperature rise had occurred to provide good data precision while the visual monitoring showed that the camera output had not reached full scale. Run times generally ranged from 10 to 40 seconds.

Color photographs of the color monitor screen were taken periodically during each run. When photographs were taken, a signal was recorded on the data record to obtain the time at which the photograph was taken. The last photograph taken during each run was printed and furnished to Rockwell International.

Table II summarizes the complete test program.

DATA REDUCTION

Digitized model centerline data were reduced assuming the model to be a semi-infinite solid. After the camera output had been reduced to model wall temperature by using the black-body calibration, h(TO) was obtained from the following expression:

$$H(TO) = \beta(\rho C_p K)^{0.5} (t)^{-0.5} \qquad (1)$$

where the value of β is obtained by iteration from the following:

$$\frac{TW-TI}{TO-TI} = 1 - e^{\beta^2} (1 - \text{erf } \beta)$$

The total elapsed model exposure time, t, was measured from the time the model entered the tunnel flow. Model material properties, $(\rho C_p K)^{0.5}$, were obtained from a curve fit of values supplied by Rockwell. Figure 2g illustrates the variation in the model properties with temperature.

The emissivity of Material "LH" was determined at AEDC and was found to be very nearly constant over the wavelength range of interest. Data reduction was performed with an emissivity value of 0.96.

During earlier OH54 tests, the model support sting was instrumented with strain gauges to determine sting deflection. The results of the earlier work were curve fitted and entered in the OH69 data reduction as an angle-of-attack correction. The value identified as α (nominal angle-of-attack) in Table II is a manual input which was used to indicate the specific curve fit required for data reduction.

Photographs of the color monitor screen are generally intended for qualitative analysis of temperature distributions. However, reduction of

the photographic data along the color interfaces is very practical, provided temperature, run time, and material properties are known. A table of color interface temperature values is presented in Table IV. Camera sensitivity and photograph time are listed in the data tabulation.

Uncertainties of the basic tunnel flow parameters PO, TO, and M_∞ were estimated from repeat calibrations of the instruments and from repeatability and uniformity of the test section flow during tunnel calibrations. The individual contributions of these uncertainties were used to compute the uncertainties in the other parameters dependent on those by means of the Taylor series method of error propagation.

	Uncertainty (±), percent		
M	PO	TO	Re/ft
7.90	0.5	0.4	1.2
7.93	0.3	↓	↓
7.94	0.3	↓	↓
7.94	0.2	↓	↓
7.95	0.2	↓	↓
7.96	0.2	↓	1.1
7.97	0.1	↓	↓
7.98	↓	↓	↓
7.98	↓	↓	↓
7.99	↓	↓	↓
7.99	↓	↓	↓
7.99	↓	↓	↓
8.00	↓	↓	↓
8.00	↓	↓	↓

Infrared camera calibrations were repeatable within ±1 percent in absolute temperature and were within ±1 percent of the calibration supplied by the camera manufacturer. Initial model surface temperature, measured with a thermocouple probe which was checked periodically, was

estimated to be ±0.5 percent of reading, °F. Model angle-of-attack was estimated to have an uncertainty of ±0.2 deg.

The overall estimated uncertainty in the heat-transfer coefficients was as follows:

H(TO)	Uncertainty, (±) Percent
10^{-3}	12
10^{-2}	7

These values were based on the following assumptions:

Item	Estimated Uncertainty, (±) Percent
k	5
C_p	5
ρ	1
TI	1
TW	1
TO	0.4
TIME	1

The estimates in k, C_p, and time are particularly generous, but these are considered to be maximum values.

Appendix A presents representative color photographs of infrared patterns obtained from groups 40, 45, and 171, respectively. Copies of other color photographs can be obtained from the project engineers. Black and white photographs are presented in Appendix B, arranged in order of increasing group number. Digitized data are presented in Appendix C.

REFERENCES

1. "NASA/RI OH69 Shuttle Orbiter Test," Informal Presentation of Data from AEDC Project No. V41B-E9A, December 11, 1975.

2. J. C. Martinez and W. H. Dye, "Pretest Information for Heat Transfer Test on 0.040-Scale Fifty Percent Forebody Models of the Rockwell International Space Shuttle Orbiter in the AEDC 'B' Hypersonic Wind Tunnel Test OH69," Rockwell International Report No. SD75-SH-0247, October 21, 1975.

3. Test Facilities Handbook (Ninth Edition) "von Karman Gas Dynamics Facility, Vol. 3," Arnold Engineering Development Center, July, 1971.

TABLE I.

TEST : OH69 | DATE :

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (million per foot)	STAGNATION PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Rankine)
7.90	0.50	105	1260
7.93	0.75	155	1270
7.94	0.78	184	1272
7.94	1.00	210	1275
7.95	1.25	265	1280
7.96	1.50	320	1290
7.97	1.75	375	1295
7.98	2.00	425	1300
7.98	2.25	490	1310
7.99	2.50	555	1320
7.99	2.75	610	1325
7.99	3.00	670	1330
8.00	3.25	735	1330
8.00	3.50	800	1335

TABLE II.

TEST: 01469

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	α	M	TRIP X/ℓ	TILE GAP	TILE H.T.	UNIT REYNOLDS NO. ~ 10^6/FT. 0.5	0.75	1.00	1.25	1.30	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50
RVN001	6	30	8	0.05	0.01	0						252		249				247		
002		40										251		250				248		
003		30				0.005				227	228		224	222	220	218	215	217		
004		40									226		225	223	221	219	216			
005		30				0.010			201	197		203	206	207	209	211	214			
006		40							198			204	205	208	210	213				
007		30				0.015		236	234	233		230	237	239	241	243	246			
008		40							235	232		231	238	240	242	244				
009		30			0	0.010							282	280	278	271	269	273	275	277
010		40											283	281	279	272	270	274	276	
011		30			0.020				258	256		254	262	263	267	265	268			
012		40						260	259	257		255	261	264	266					
013	7	30		.111	0.010	-0.020						169	164	161	158	52	165			
014		40							171	170		168	167	160	159	53				
015		30											166			157				
016		30				0			29			27		25				32		
017		40							31			28		26				33		
018		30								47		45	42	40	37	38	50			

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE II. (Continued)

TEST: 0469

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	α	M	TRIP X/ℓ	TILE GAP	TILE HT.	UNIT REYNOLDS NO. ~ 10^6/FT. 0.5	0.75	1.00	1.25	1.30	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50
RVN019	7	40	8	.111	0.010	0.010			49	48		46	43	41	36	39				
020		30				0.015			18	20		16	22	24						
021		40							19	21		17	23							
022		20				0.020							15							
023		30						9/11*	6	12		5	14	2				1		
024		40					10	8	7	13		4		3						
025		30				0.010				195		194	191	189	188	187	183	184	185	
026		40											192	190	193	186				
027		30			0.020					174		175	178	179	181	182				
028		40							172	173		176	177	180						
029		30			0.010								289	286		284				
030		40											290	288		285				
031	8	30		0.175		0.025								117	115	113	107	110	111	112
032		40								121		120	119	118	116	114	108	109		
033		30				0.010				123		126	127	130	131	134	137	138		
034		40							122	124		125	128	129	132	135	136			
035		30				0.015			89	86		83	82	79	78	75	73	72		
036		40						88	87	85		84	81	80	77	76	74			

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

IDVAR (1) IDVAR (2) NDV

~~α OR β~~ ~~SCHEDULES~~ *

COEFFICIENTS

GROUP 9 @ RN/Ft = .75 $\times 10^6$/FT

GROUP 11 @ RN/Ft = .78 $\times 10^6$/FT

TABLE II. (Concluded)

TEST: OH69

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE:

DATA SET IDENTIFIER	CONFIGURATION	α	M	TRIP X/ℓ	TILE GAP	TILE HT	UNIT REYNOLDS NO. ~ 10⁶/FT 0.5	0.75	1.00	1.25	1.30	1.50	1.75	2.00	2.25	2.50	2.75	3.00
RUN 037	8	30	8	0.175	0.010	0.025		105	103	100		99	96	93	90	92	95	
038	↓	40	↓	↓	↓	↓	106	104	102	101		98	97	94	91			
039	↓	30	↓	↓	0	0.015			153	151		149	147	145	143	139	141	
040	↓	40	↓	↓	↓	↓		156	154	155		150	148	146	144	140	142	
041	↓	30	↓	↓	0.020	↓			68	66		64	62	61	58	55	57	
042	↓	40	↓	↓	↓	↓	71	70	69	67		65	63	60	59	56		
043	8 W/TILES 69, 75, & 85	30	↓	↓	↓	↓										54		

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES

TABLE III. MODEL DIMENSIONAL DATA

MODEL COMPONENT: BODY - B_{60}

GENERAL DESCRIPTION: Fifty percent orbiter forebody, vehicle 140C.

NOTE: This body includes a small portion of the wing glove.

MODEL SCALE: 0.040

DRAWING NUMBER: VL70-000140C

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length	645.15	25.80
Max Width	330.00	13.20

TABLE III. MODEL DIMENSIONAL DATA (Concluded)

MODEL COMPONENT: CANOPY - C_{10}

GENERAL DESCRIPTION: Configuration 4 canopy and windshield as used with B_{25}, six glass panes in windshield.

MODEL SCALE: 0.040

DRAWING NUMBER: VL70-000140B, -0140C, -202B

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (X_o = 434.643 to 670), In.	235.357	9.414
Max Width		
Max Depth, Glass, In.	28.00	1.120

TABLE IV. COLOR/TEMPERATURE CORRELATION FOR COLOR PHOTOGRAPHS

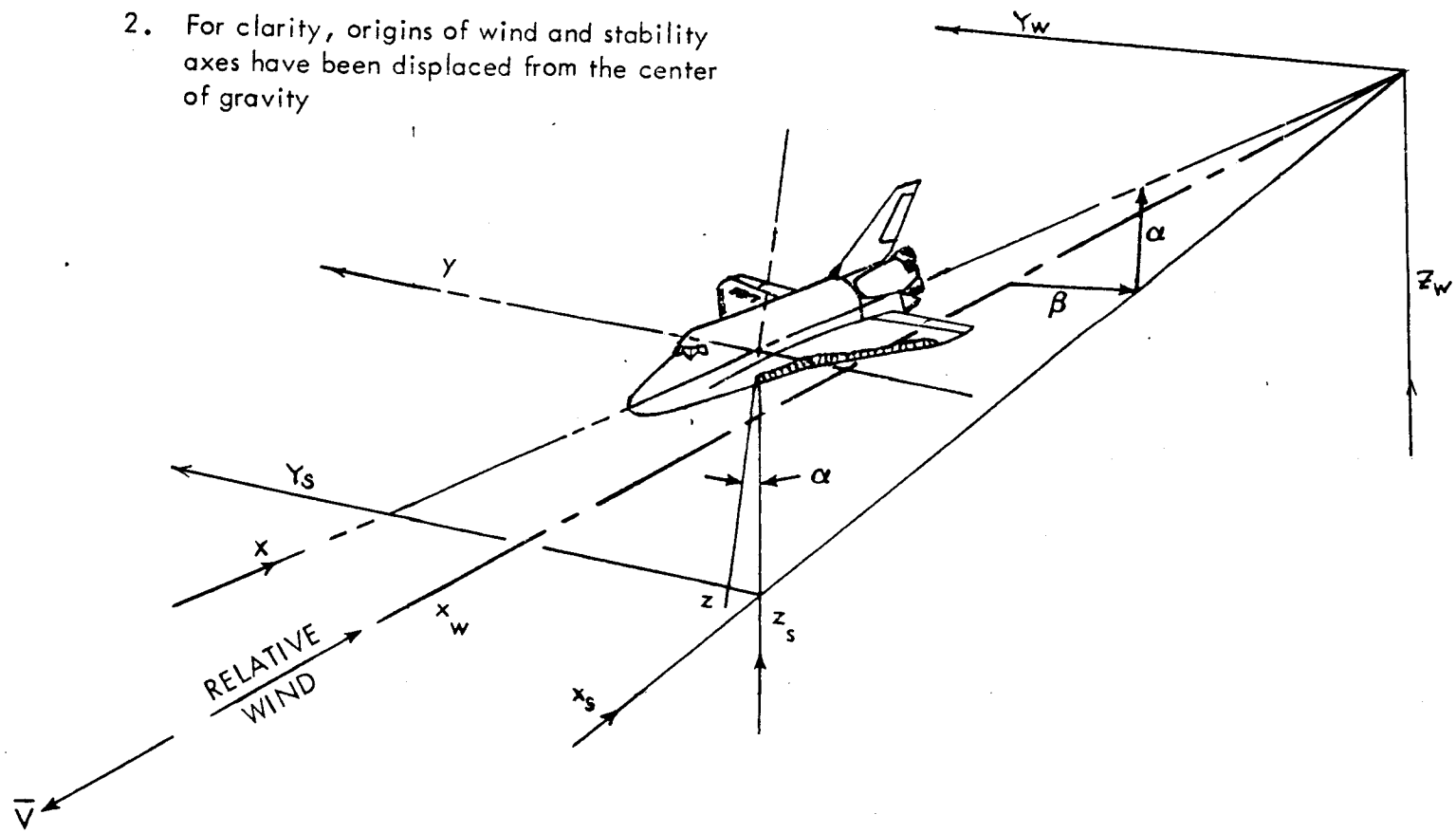
	COLOR INTERFACE TEMPERATURE, °F				
	SYSTEM SENSITIVITY*				
COLOR INTERFACE	50	100	200	500	1000
Blue - Light Blue	90	100	116	154	190
Light Blue - Green	100	116	140	190	236
Green - Light Green	108	128	162	215	270
Light Green - Violet	116	140	176	236	296
Violet - Magenta	122	153	190	254	318
Magenta - Red	128	162	201	270	337
Red - Orange	134	170	211	284	355
Orange - Yellow	140	176	221	296	371
Yellow - White	145	183	230	308	387

*See Tabulated Data or Tunnel Run Log for sensitivity value.

Notes:

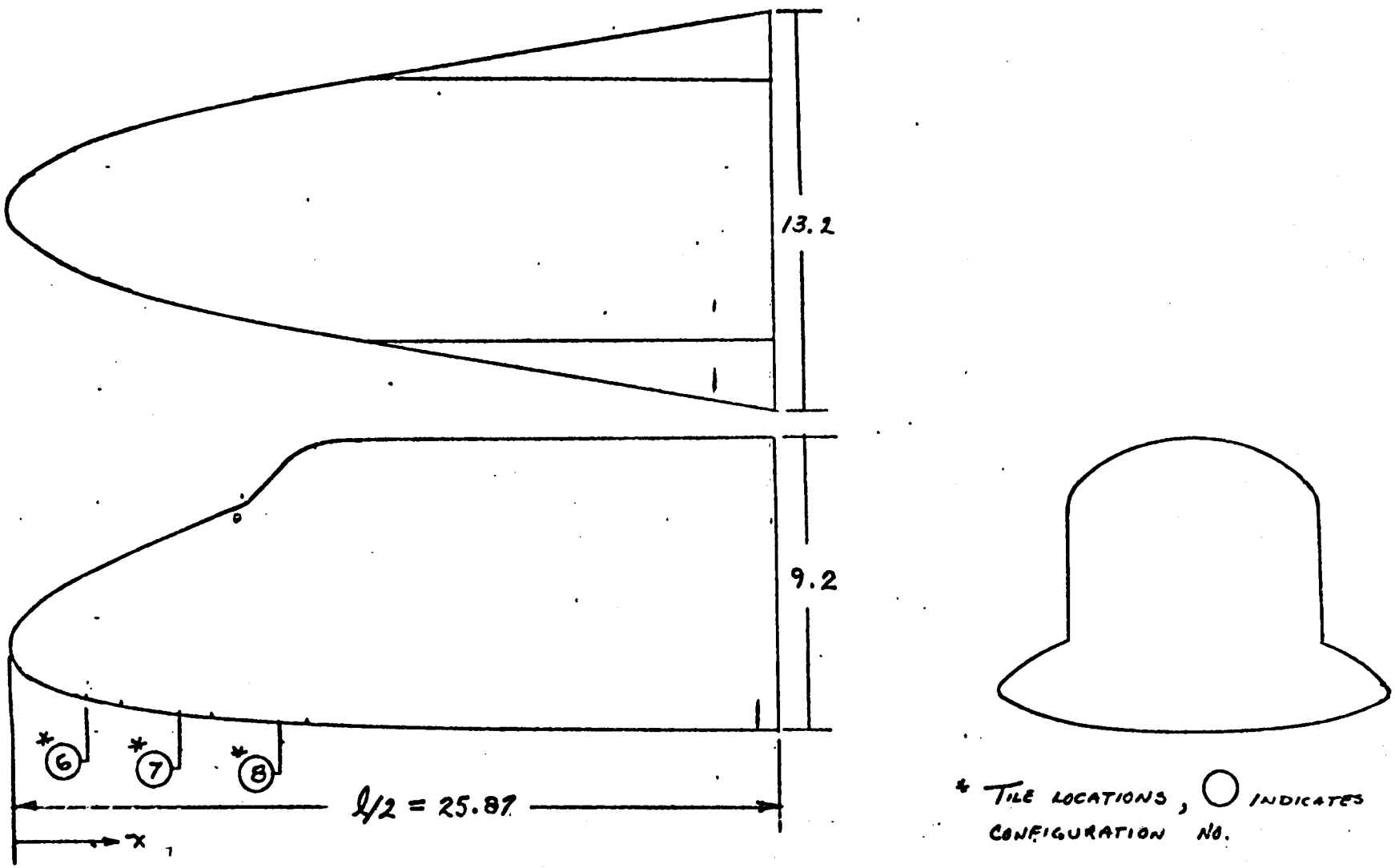
1 Positive directions of angles are indicated by arrows

2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

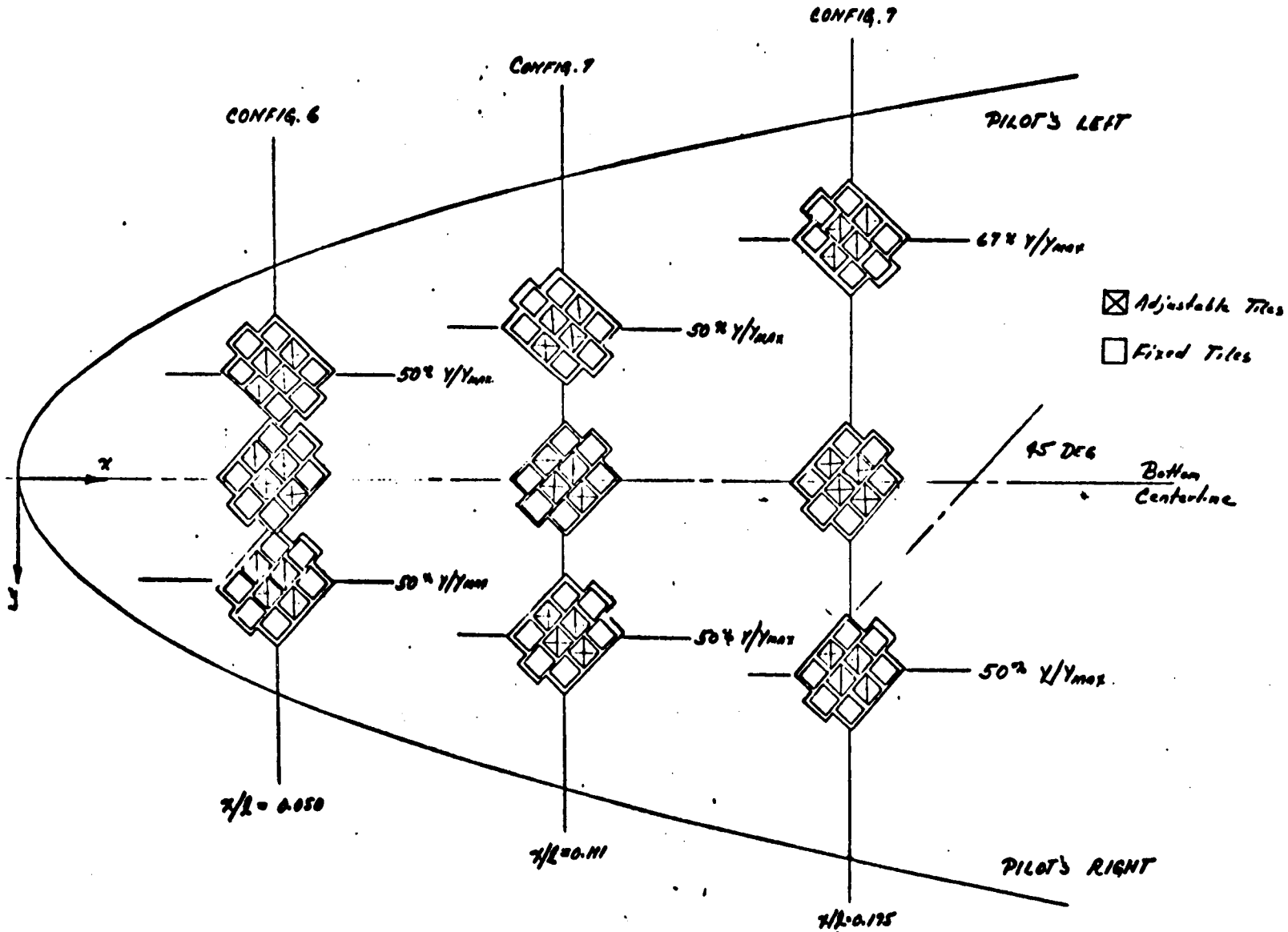


a. Axis Systems

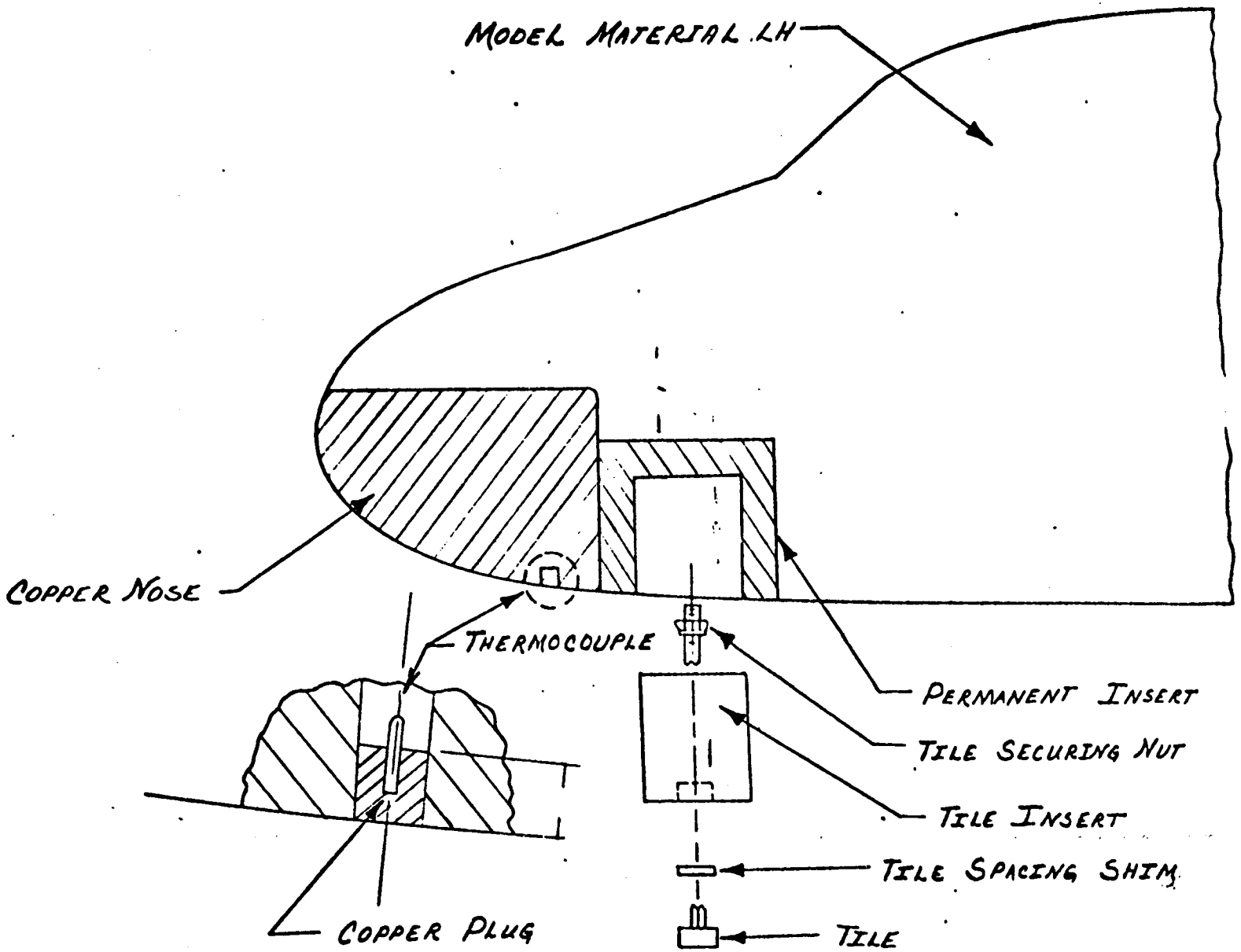
Figure 1. Model Sketches



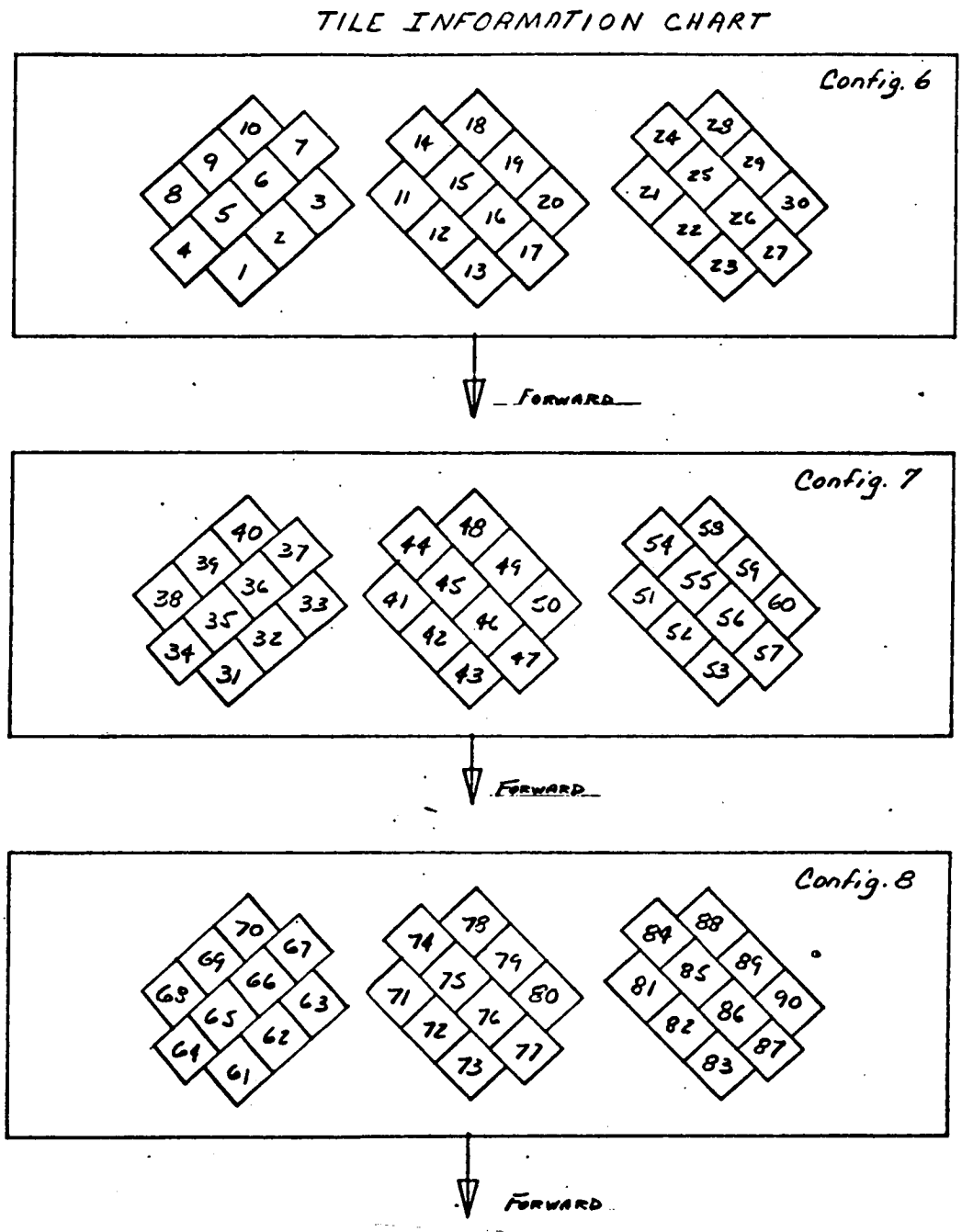
a. Model Geometry
Figure 2. Model sketches.



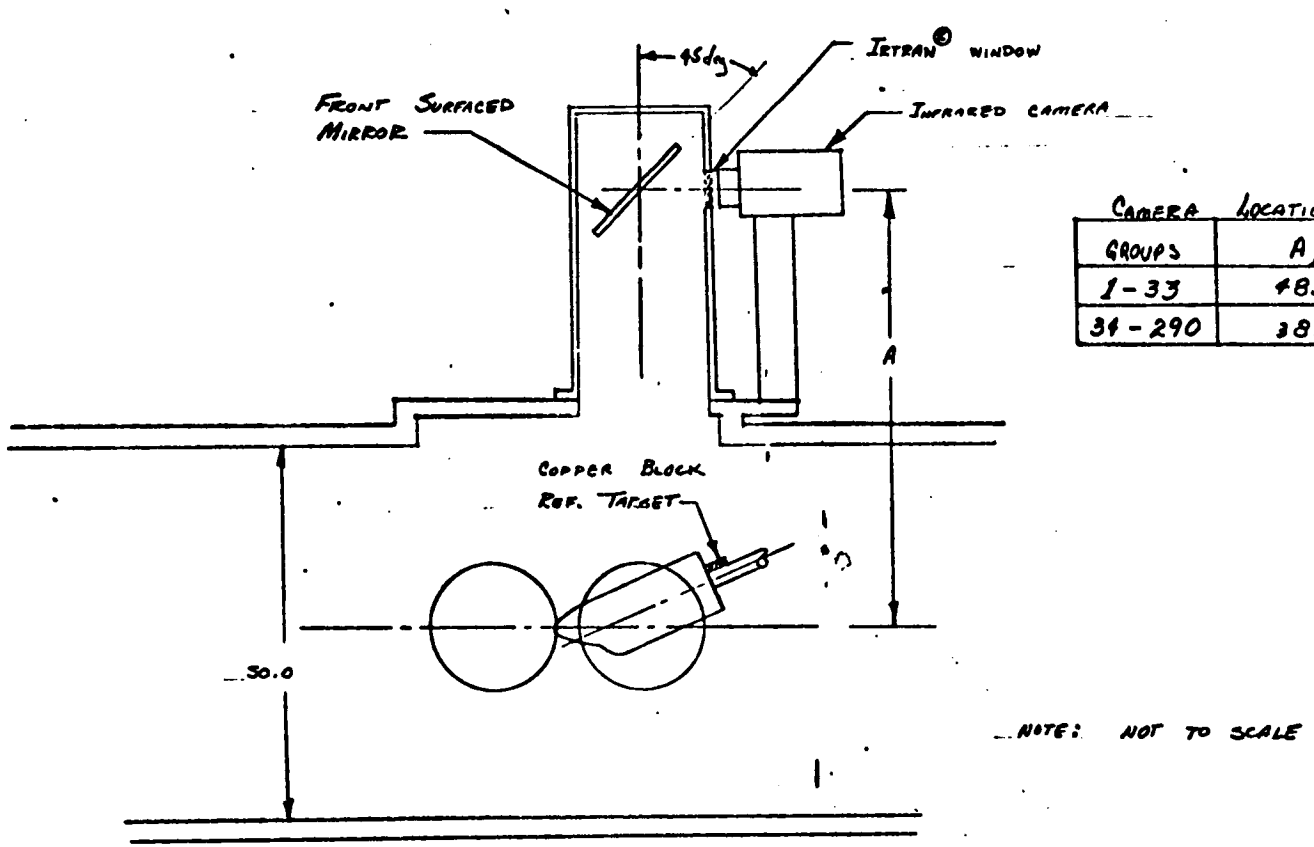
b. Tile Cluster Locations
Figure 2. Continued.



c. Tile Installation Details
Figure 2. Continued.

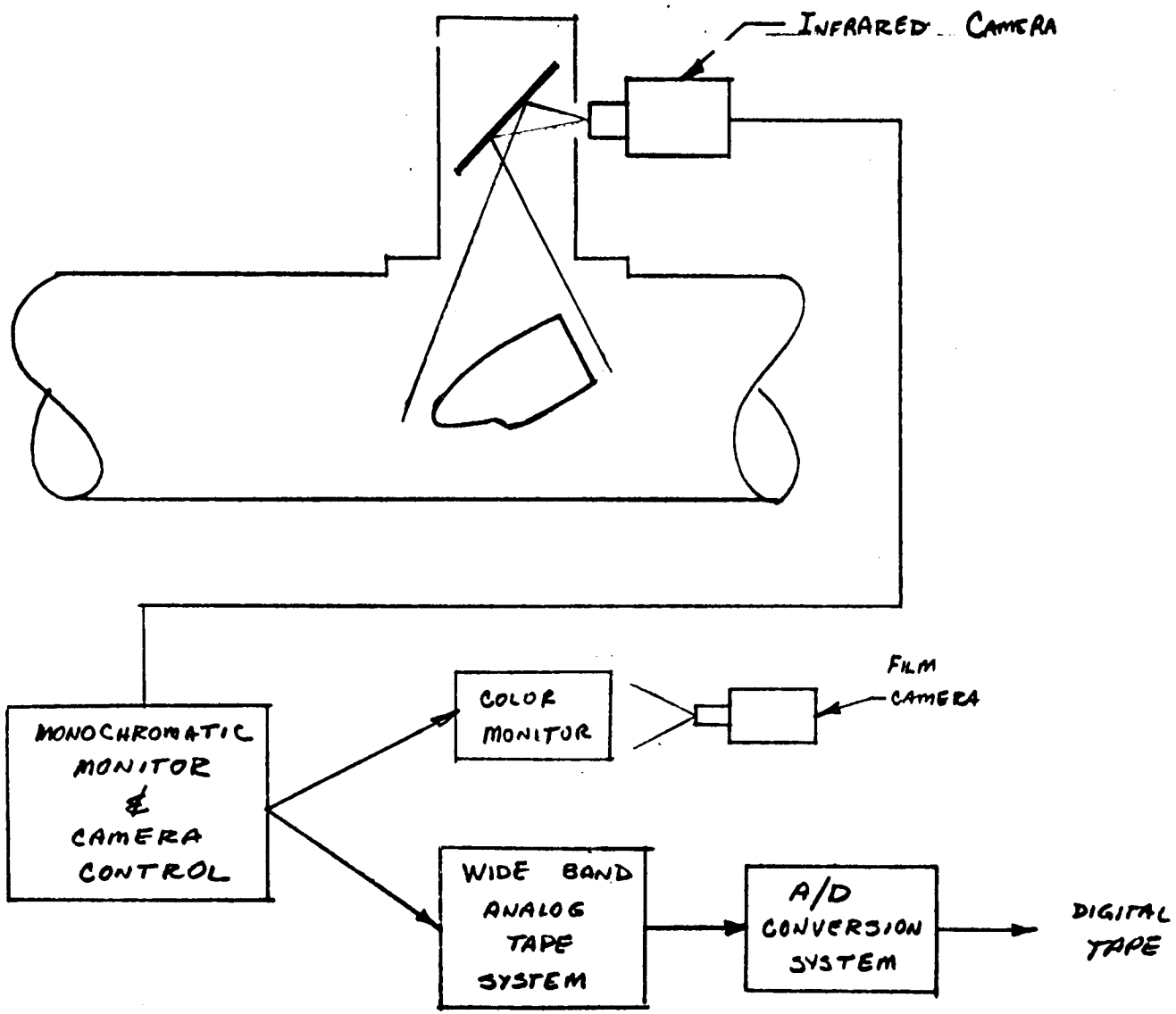


d. Tile Identification Sketch
Figure 2. Continued.

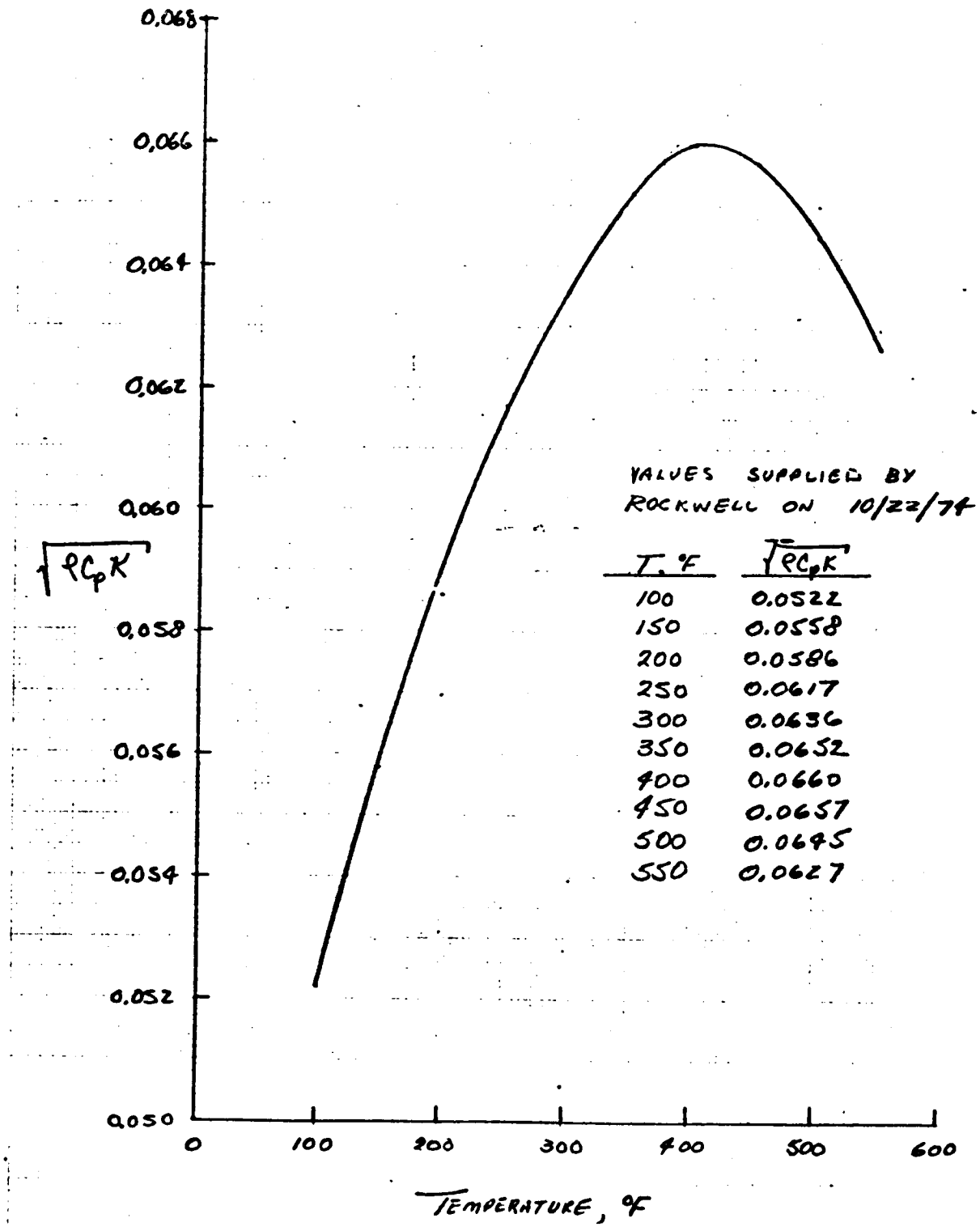


CAMERA GROUPS	LOCATION A, IN
1-33	48.75
34-290	38.00

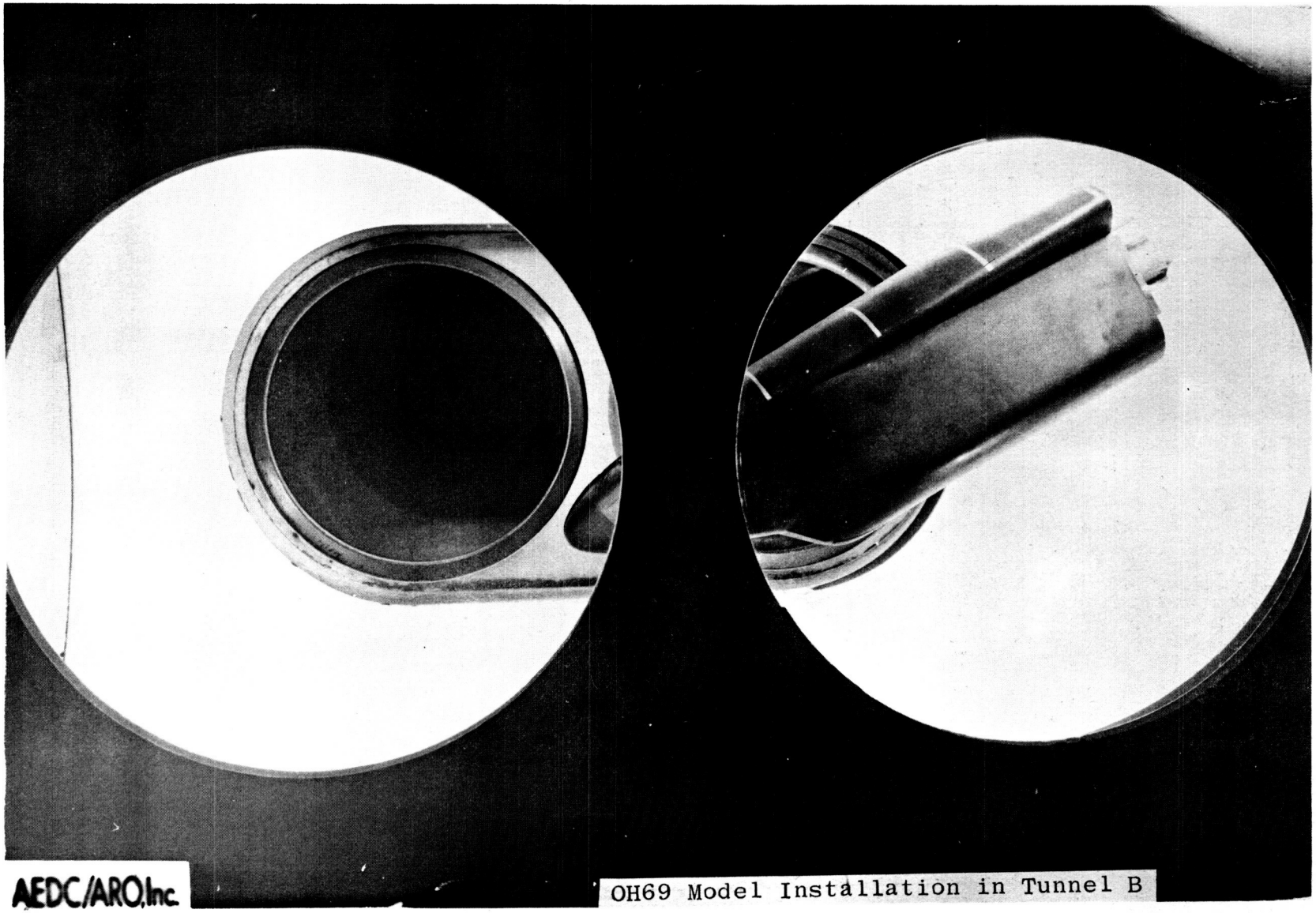
e. Schematic of Model Installation
Figure 2. Continued.



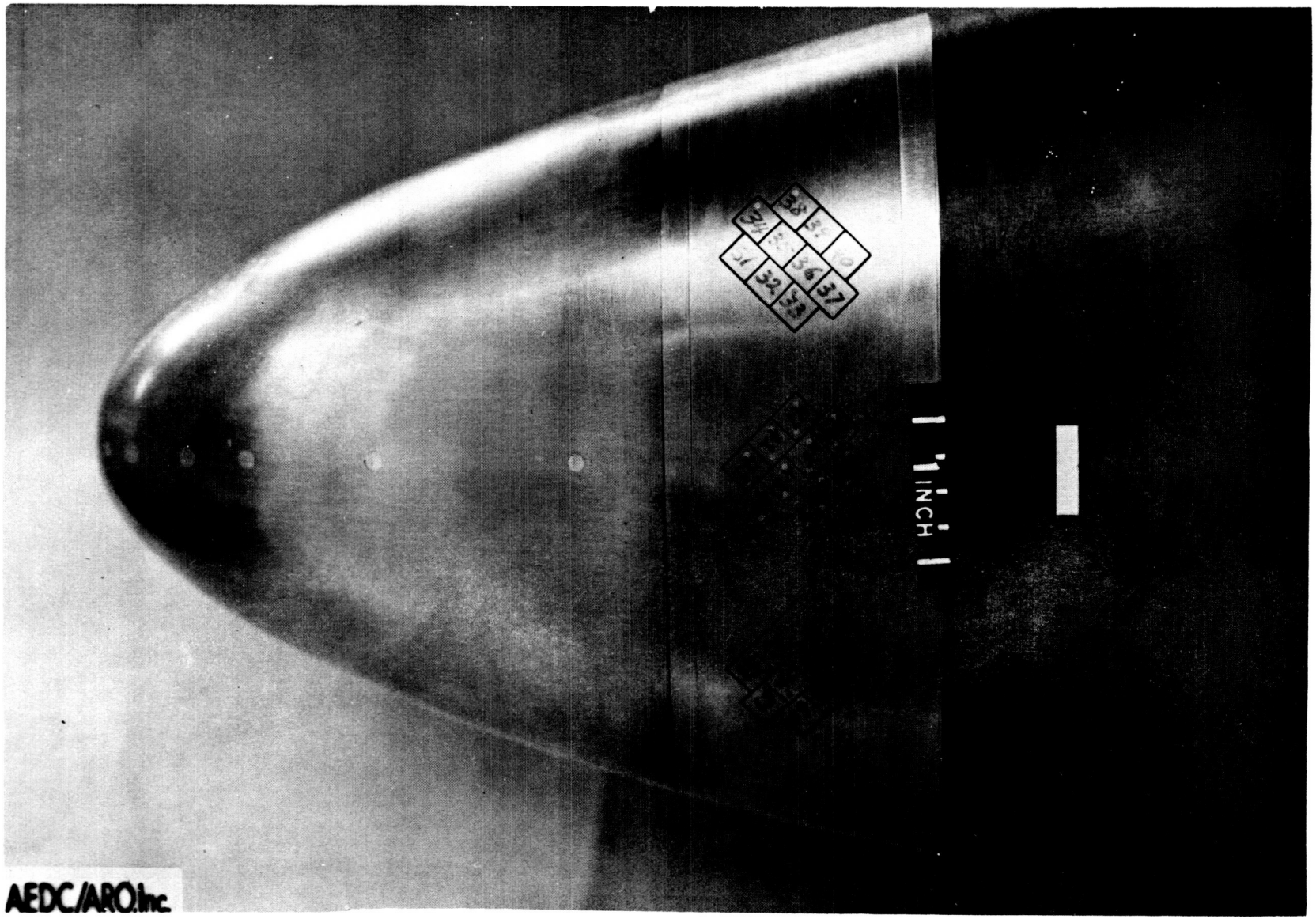
f. Schematic of Data System
Figure 2. Continued.



g. Model Material Properties
Figure 2. Concluded.



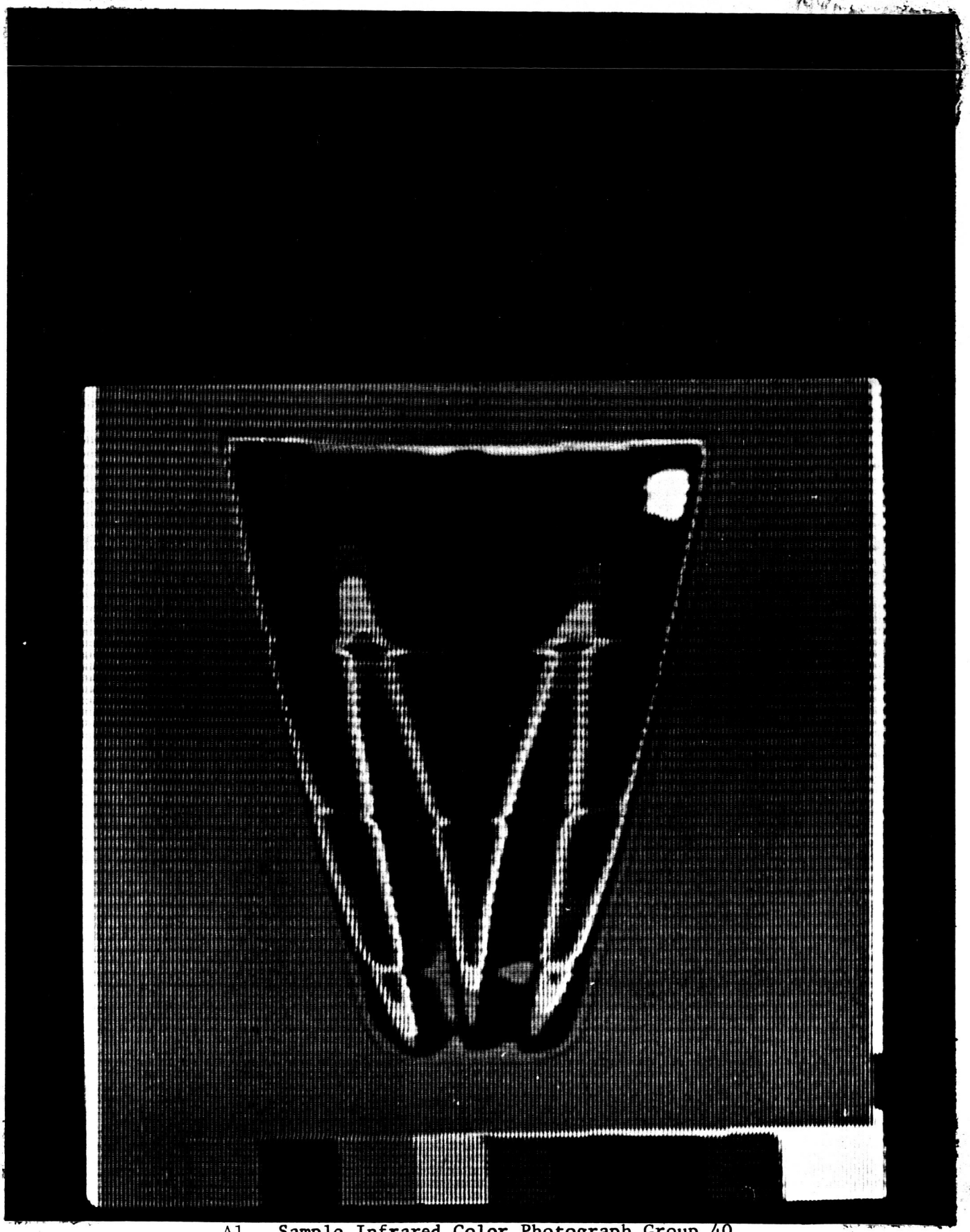
a. Model Installation in Tunnel B
Figure 3. Model photographs.



b. Tile Installation for Configuration 7
Figure 3. Continued.

APPENDIX A.

SAMPLE INFRARED COLOR PHOTOGRAPHS - VOLUME 1



A1. Sample Infrared Color Photograph Group 40
Sensitivity = 1000 α = 30 RN/ℓ = 2.0 x 10^6/ft.

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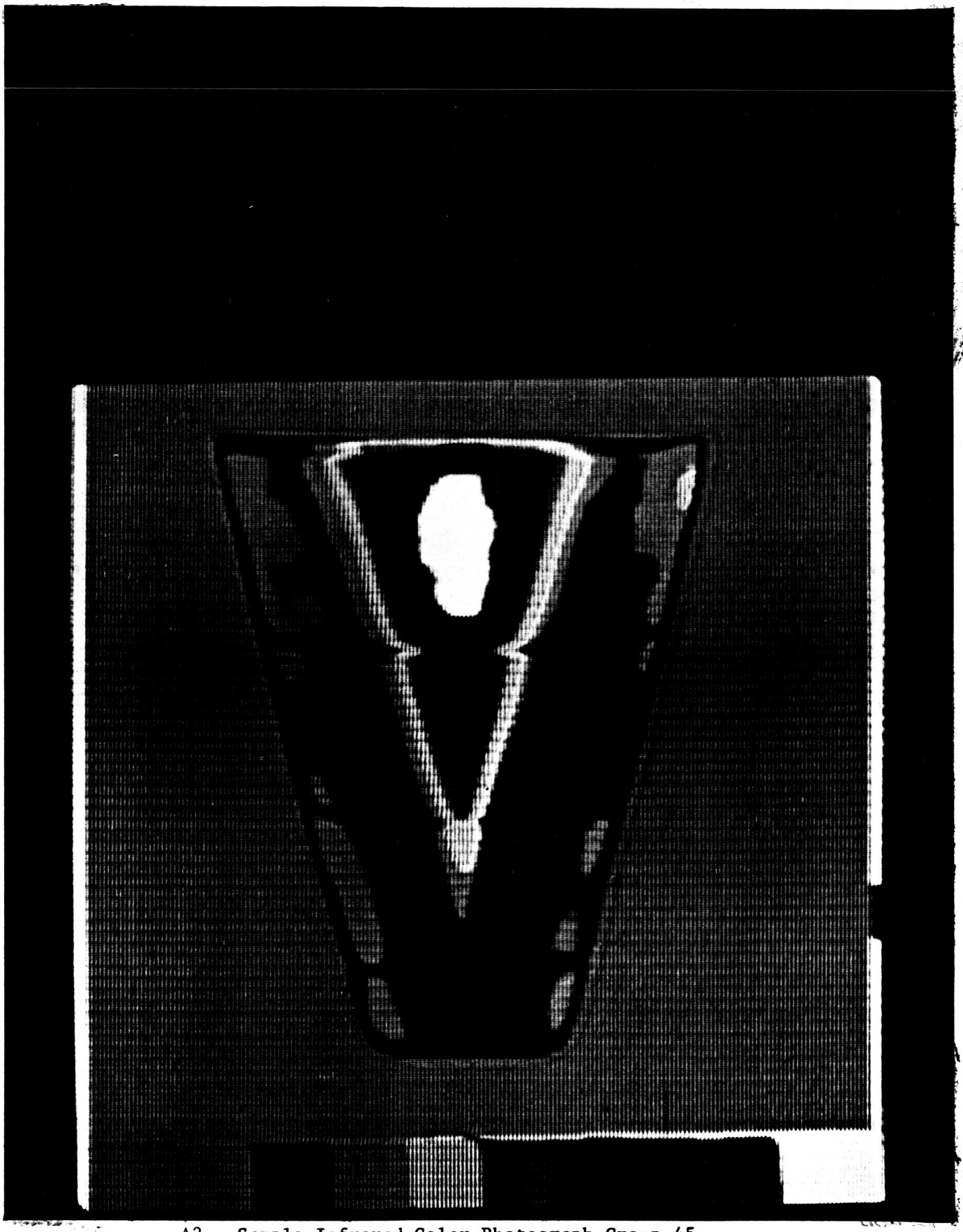

A2. Sample Infrared Color Photograph Group 45
Sensitivity = 500 α = 30 $RN/\ell = 1.5 \times 10^6/ft.$

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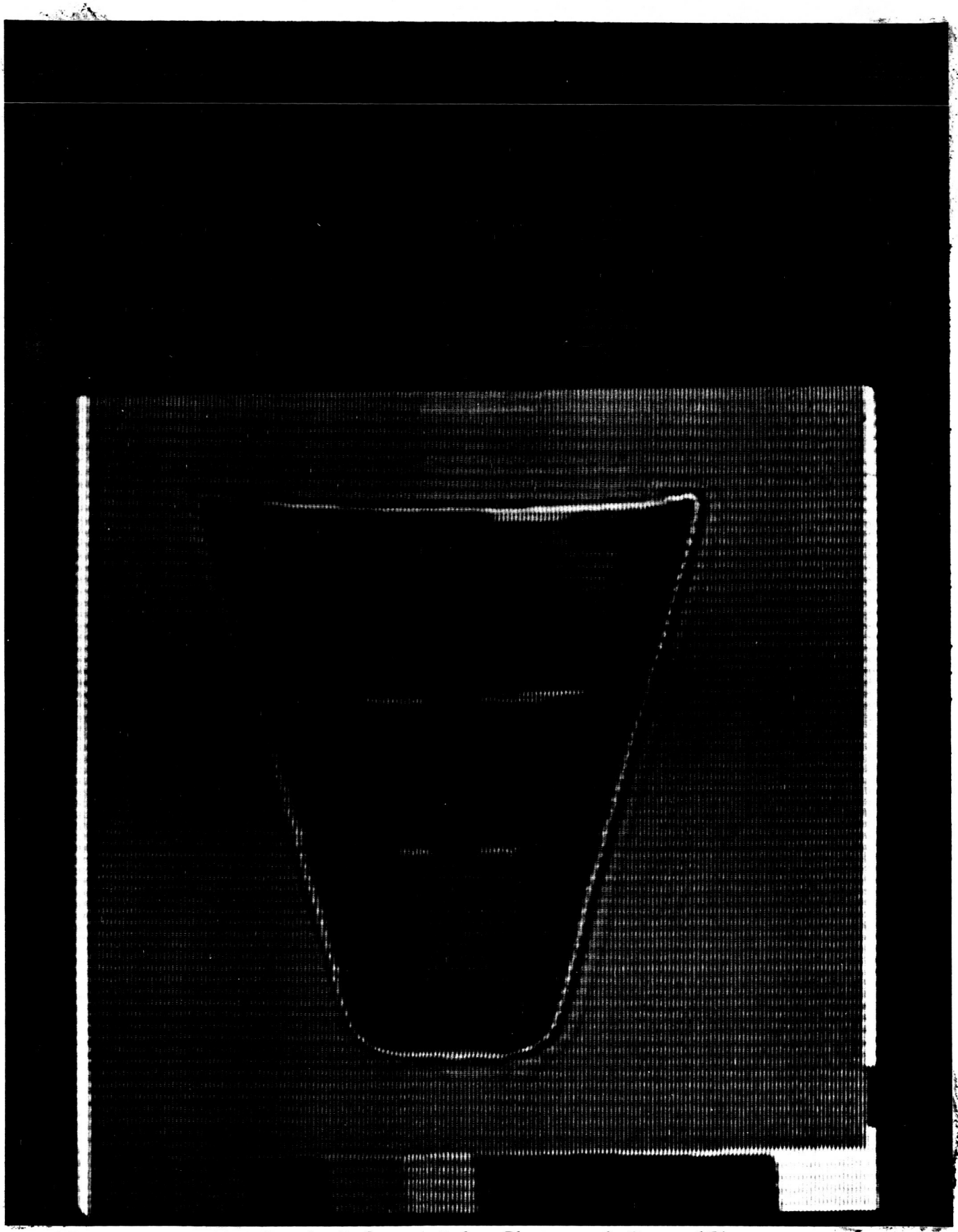

A3. Sample Infrared Color Photograph Group 171
Sensitivity = 200 α = 40 RN/ℓ = 1.0 x 10^6/ft.

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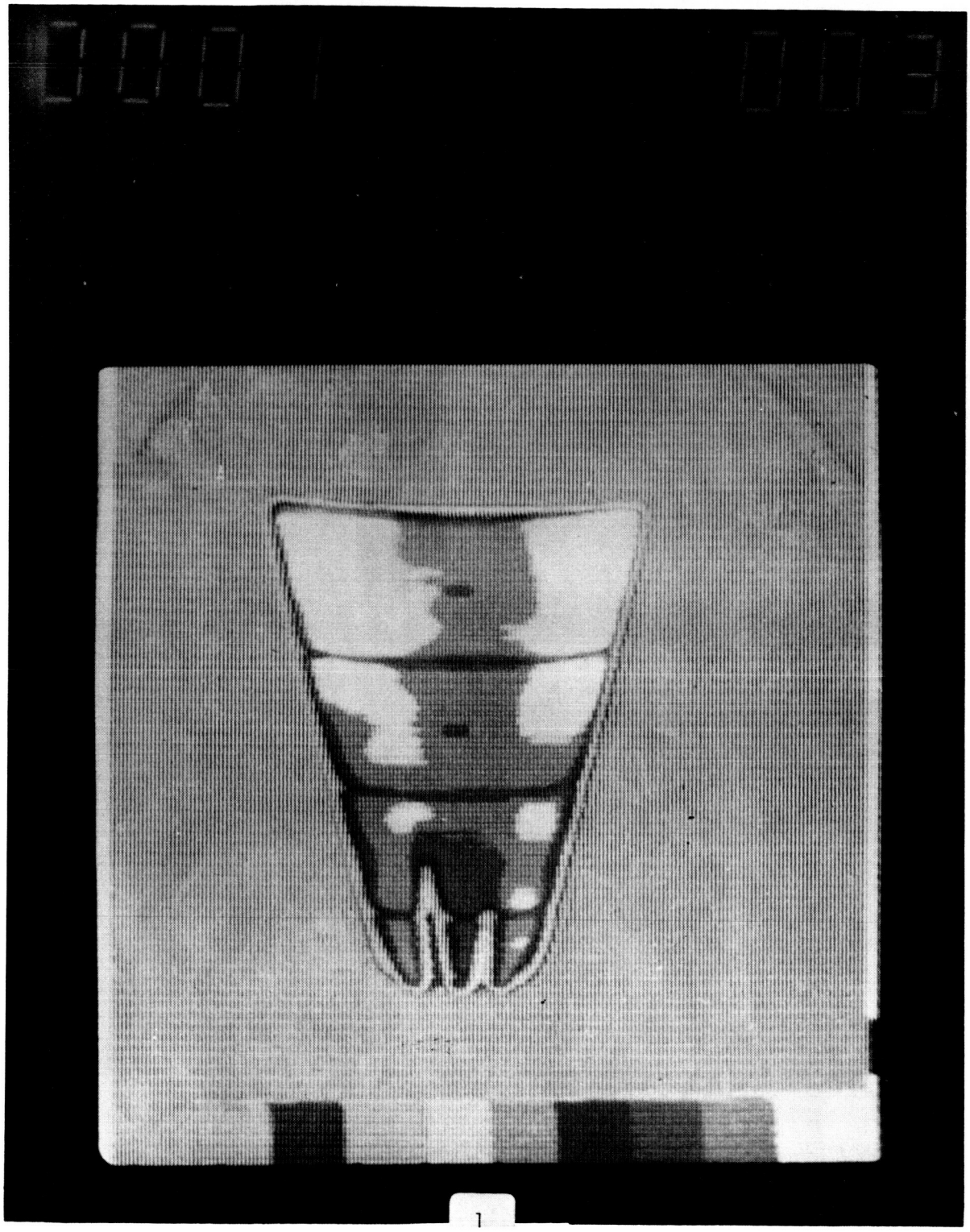
APPENDIX B.

BLACK AND WHITE INFRARED PHOTOGRAPHS - VOLUME 1



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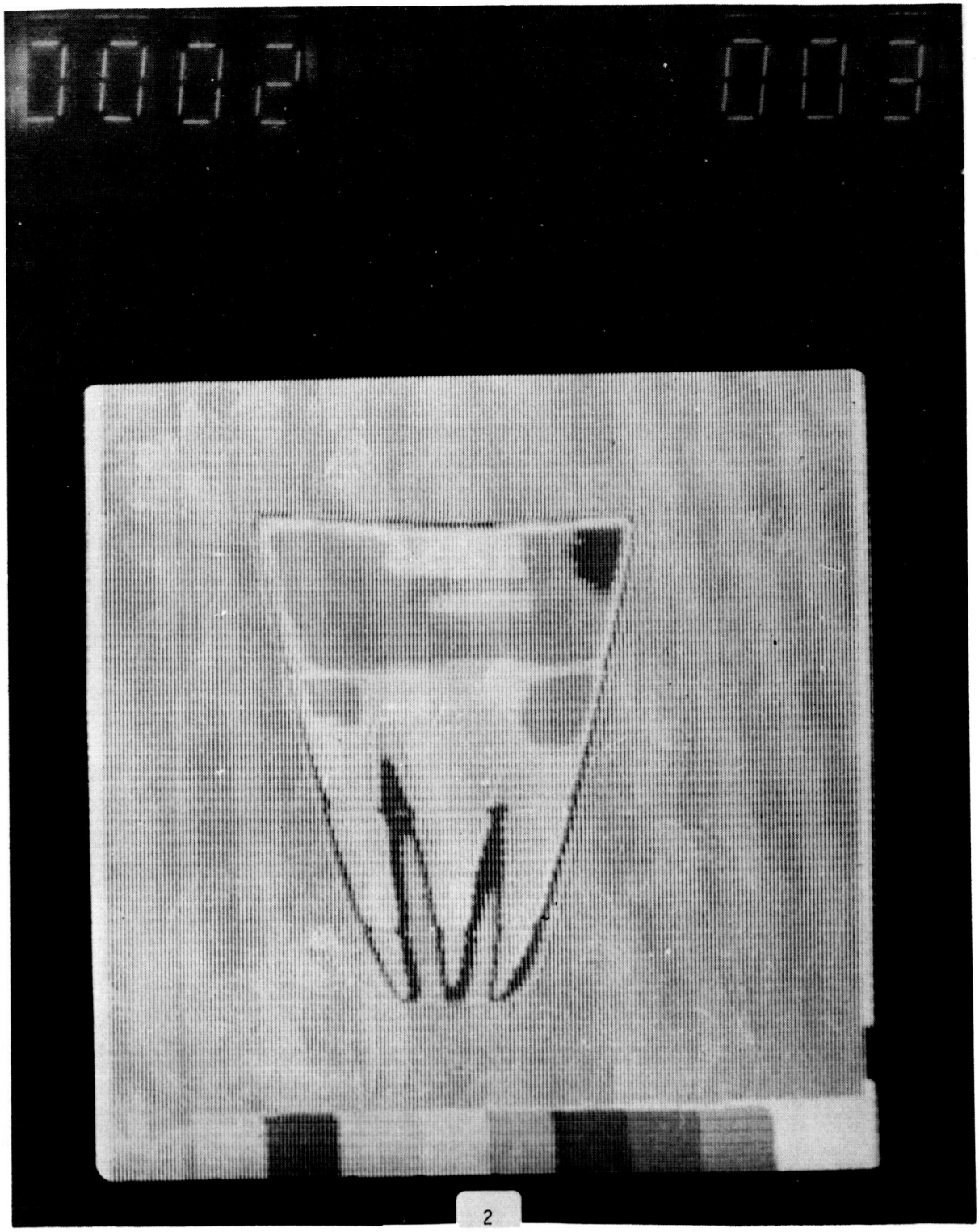
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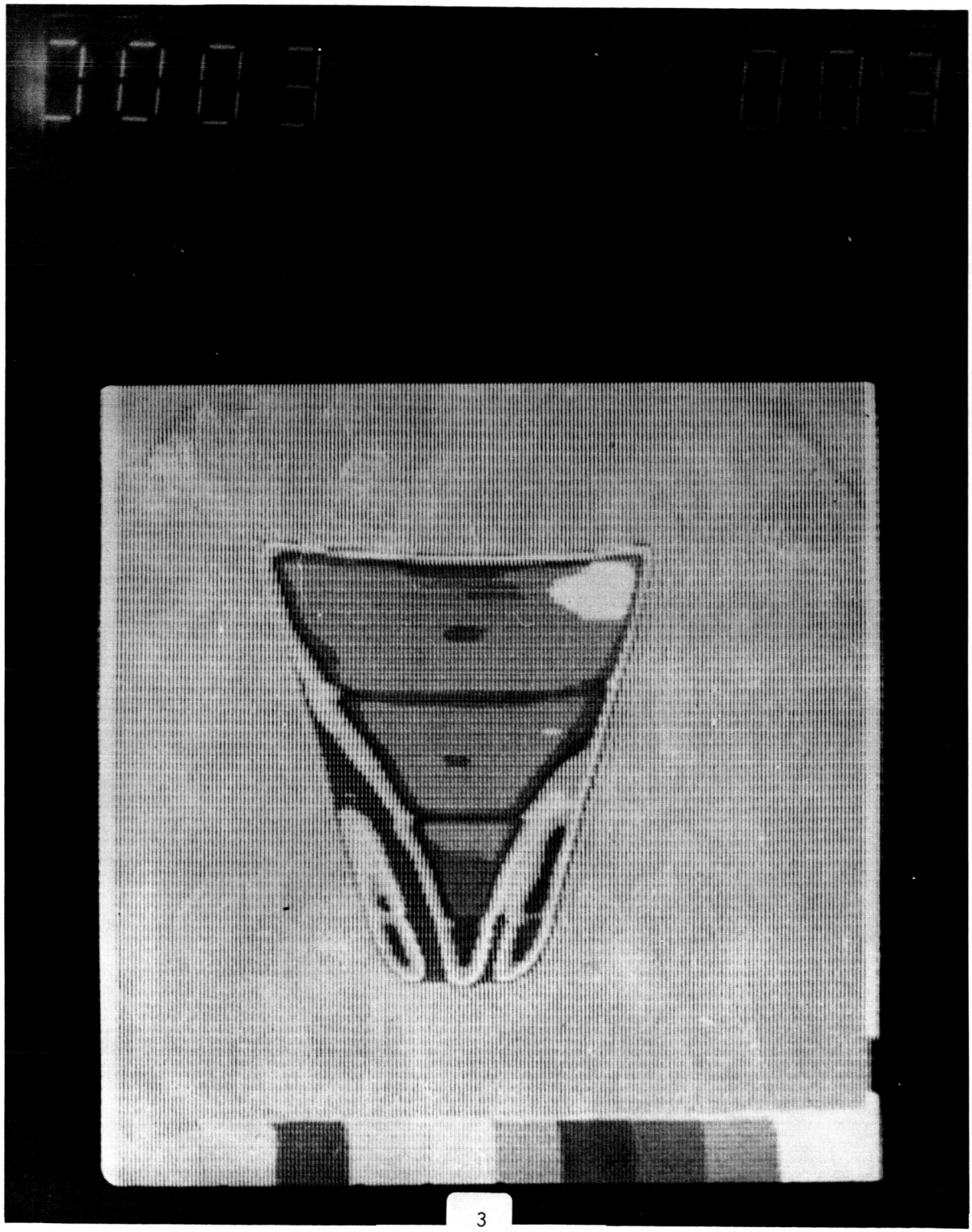

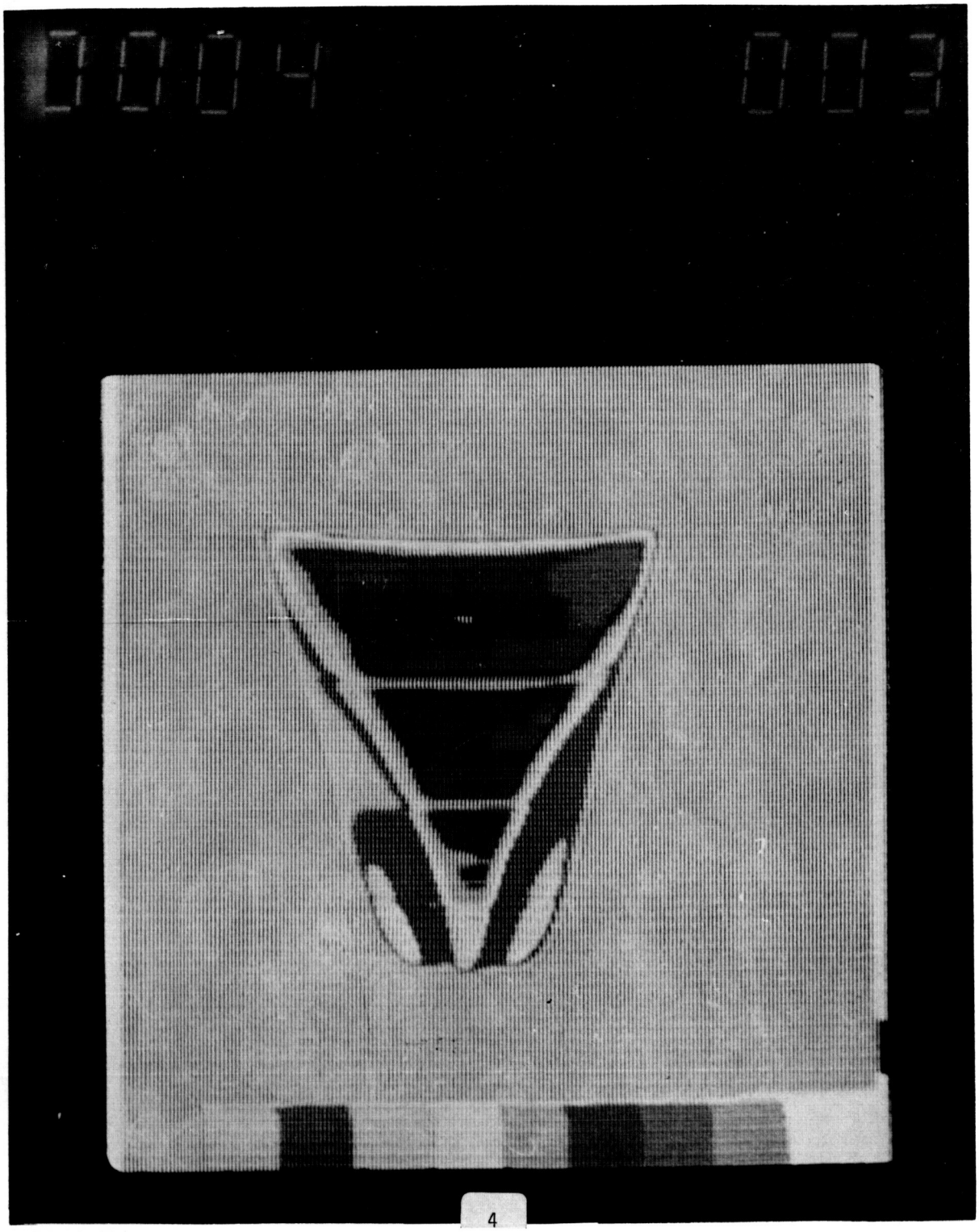
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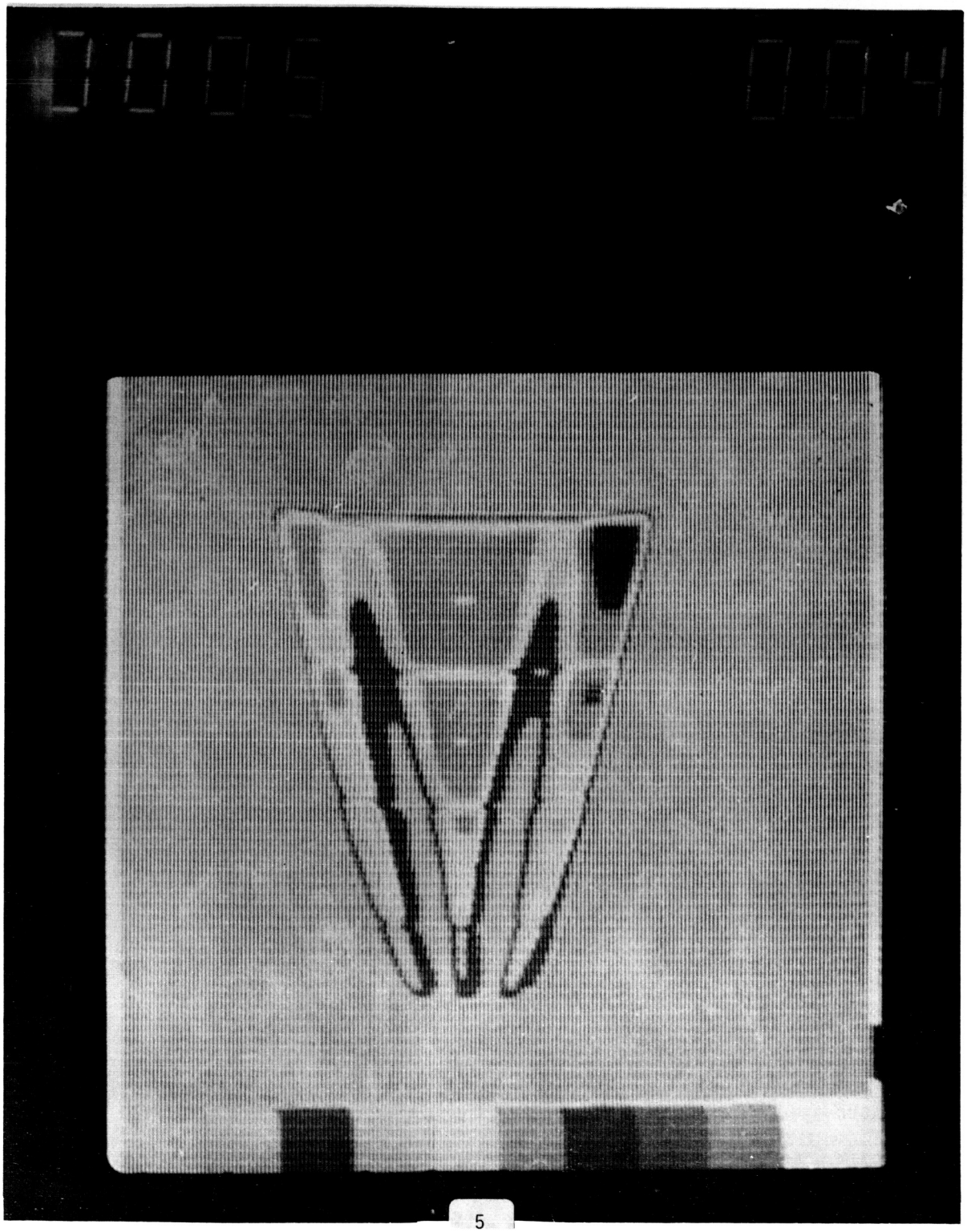

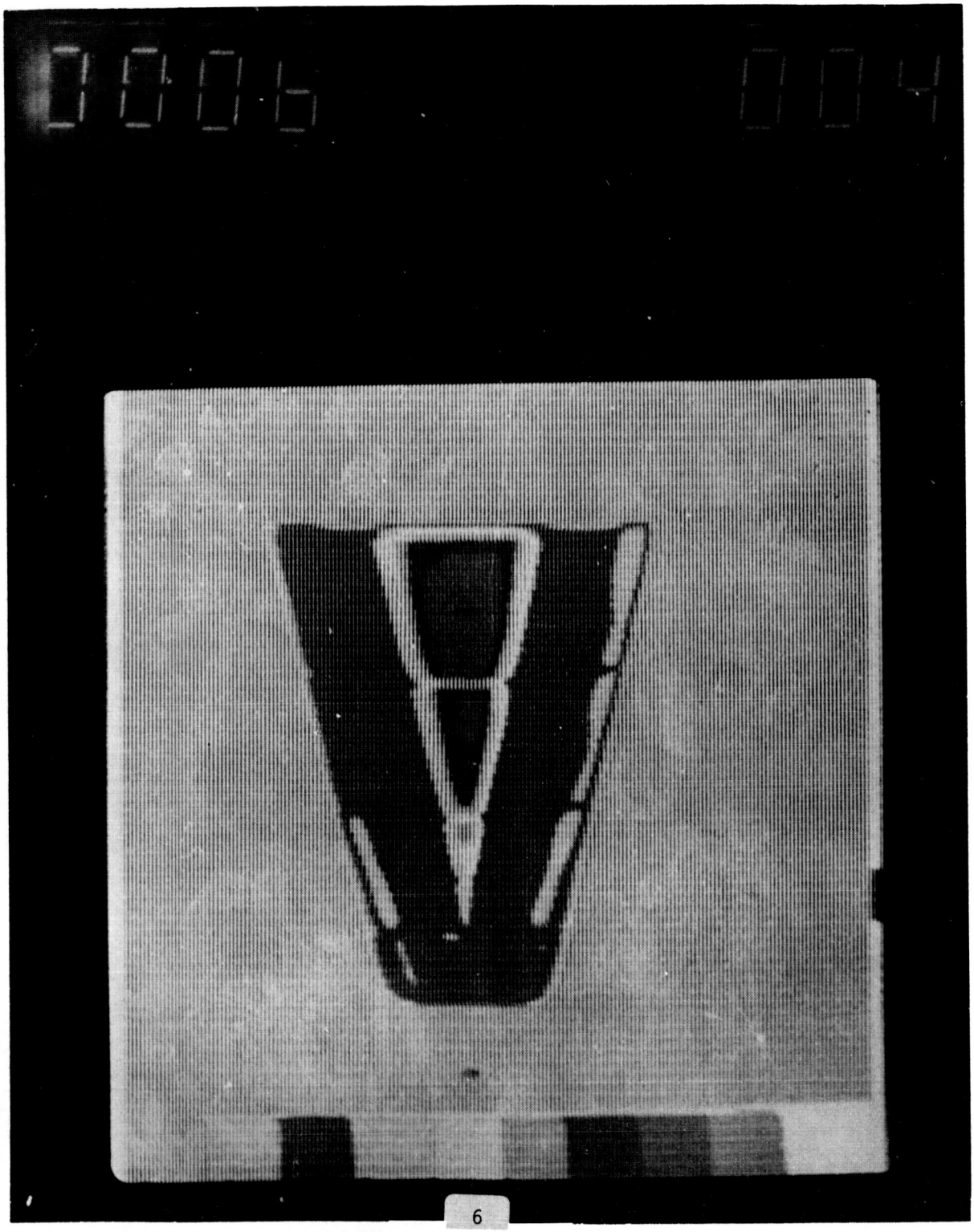

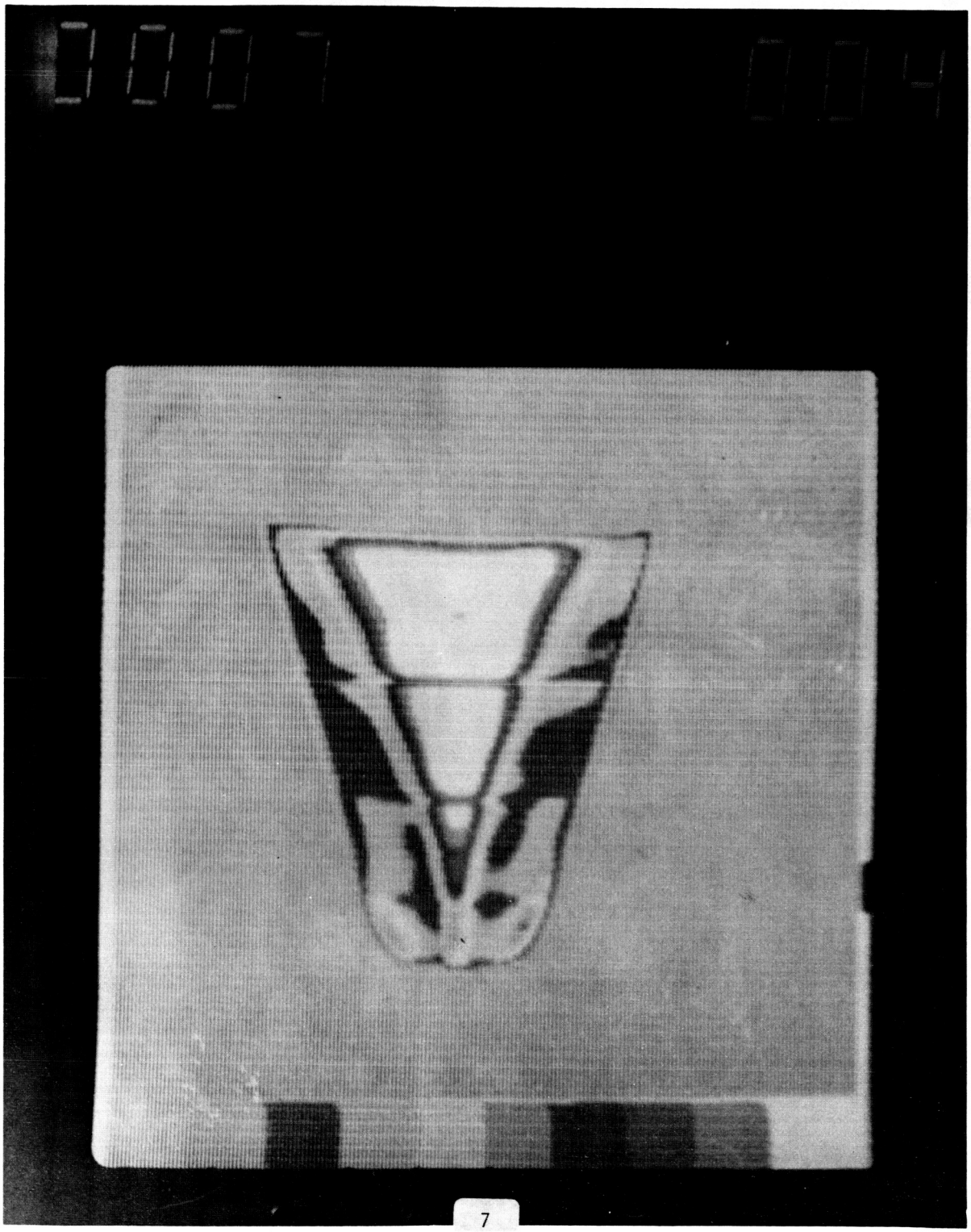
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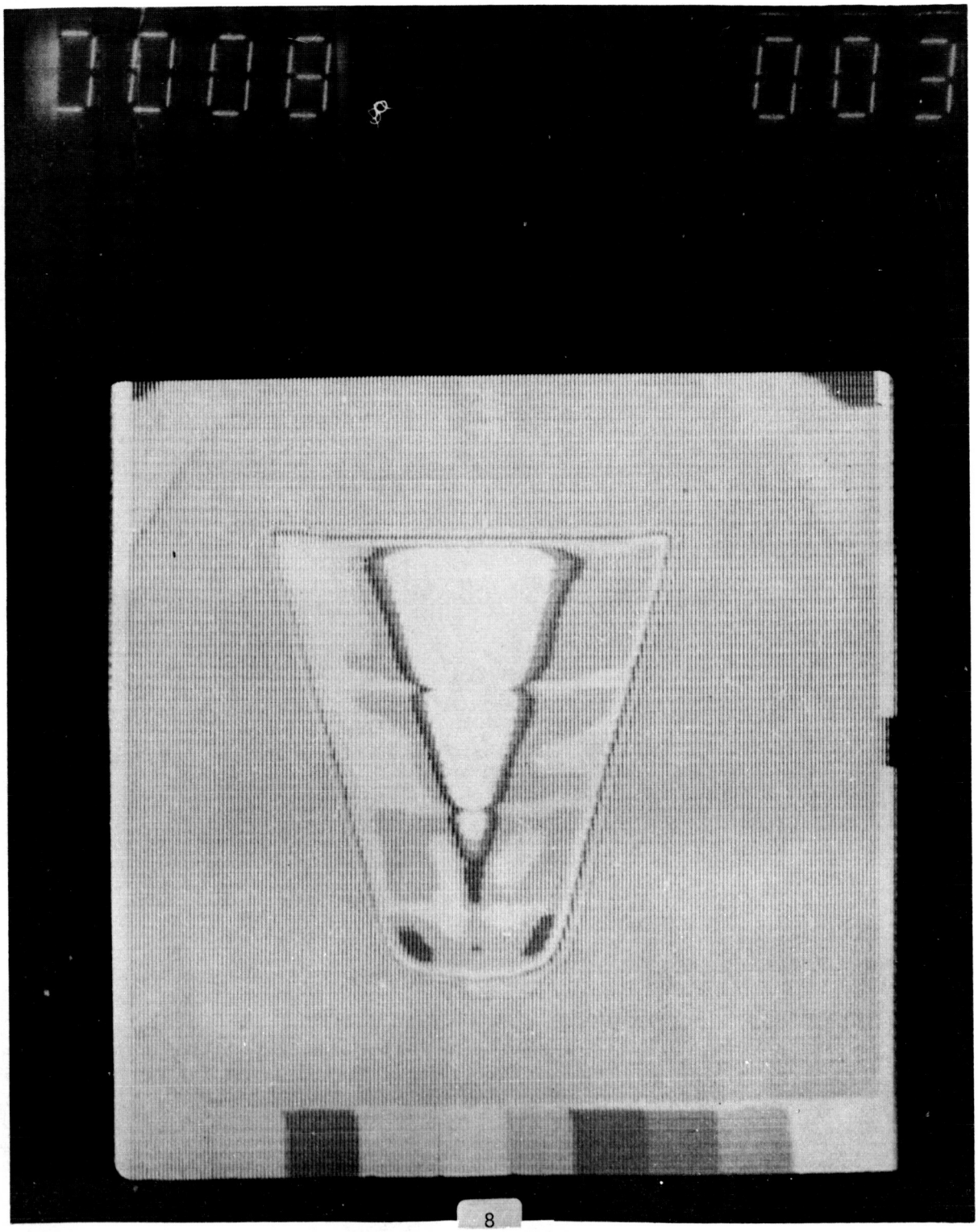
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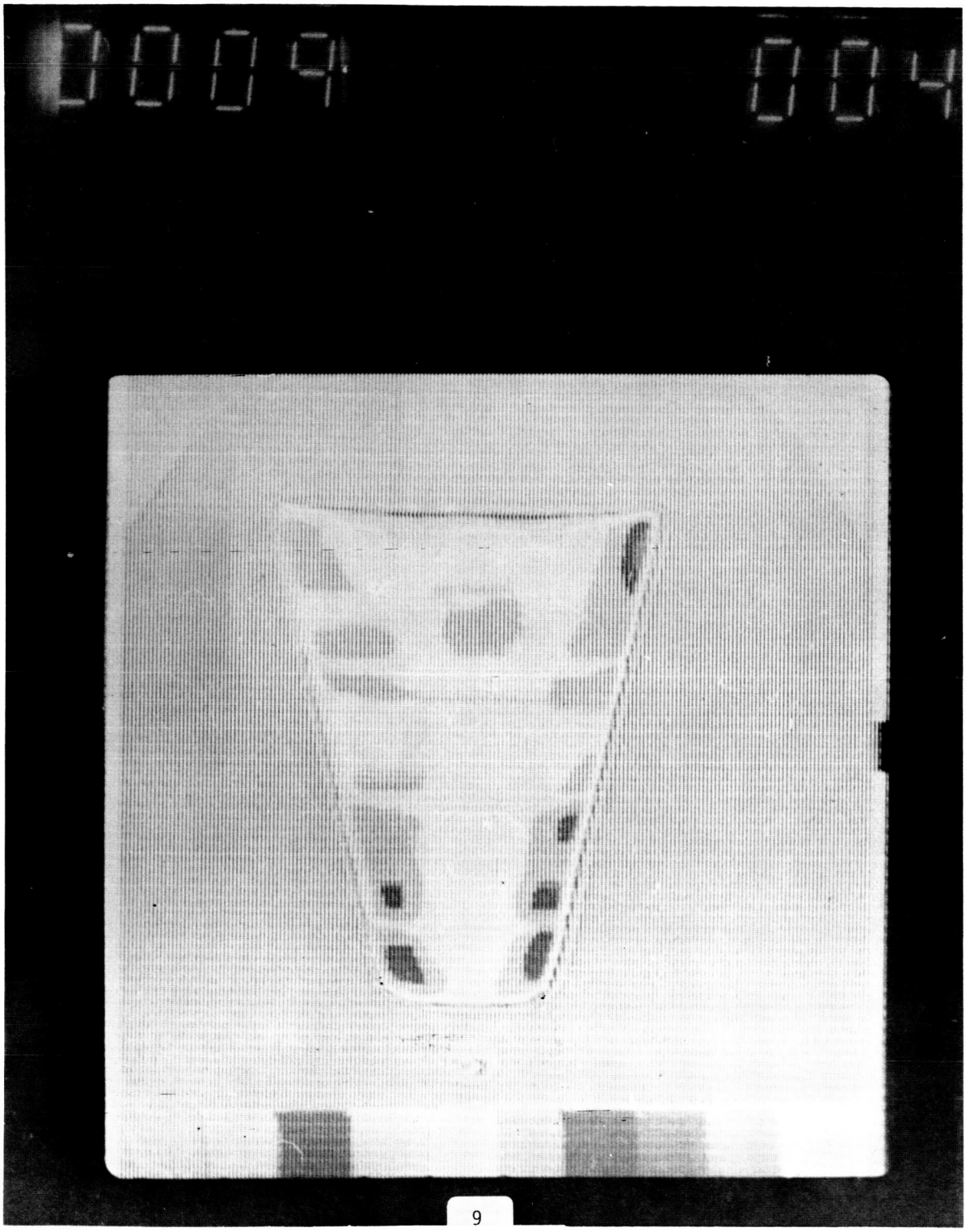
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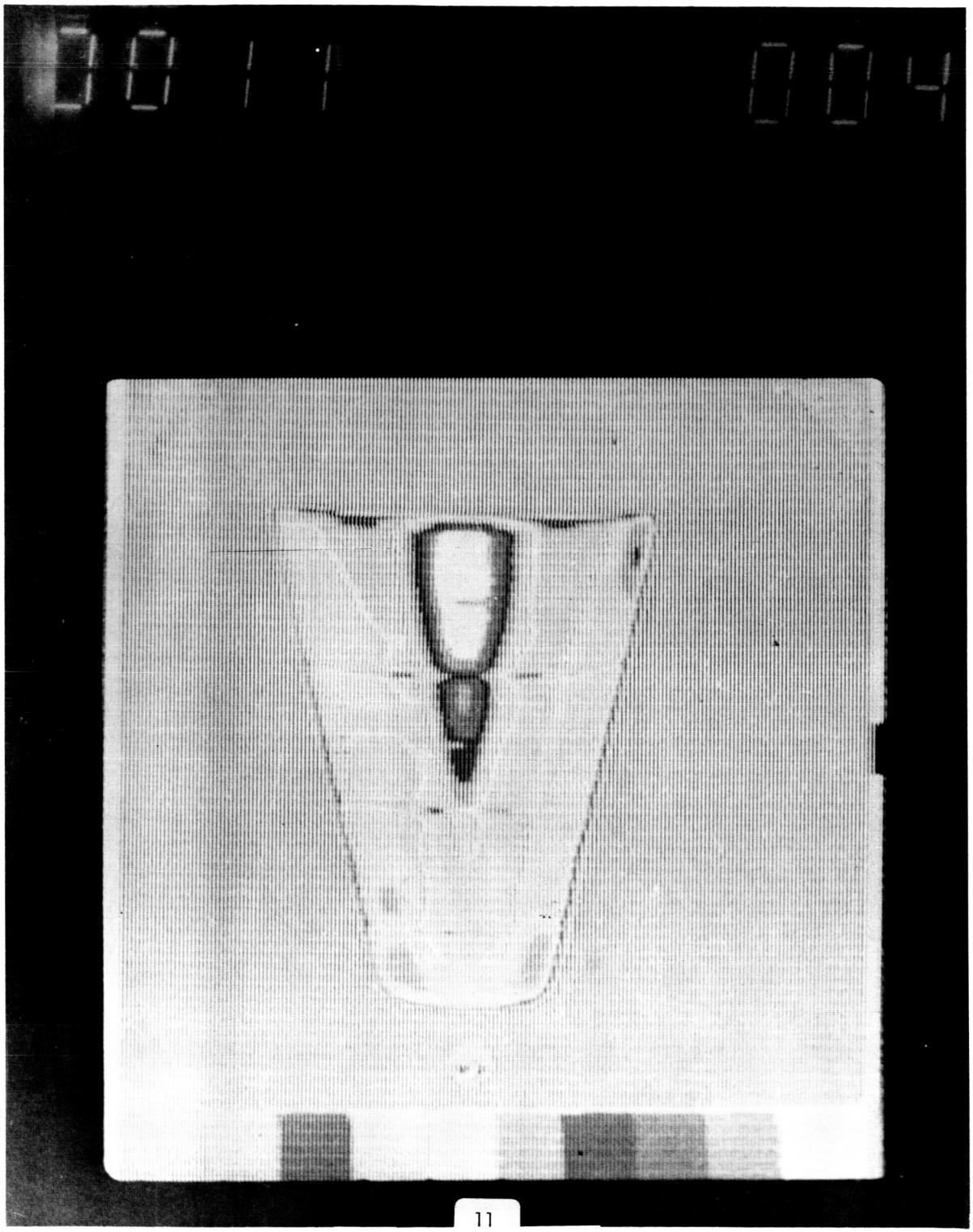
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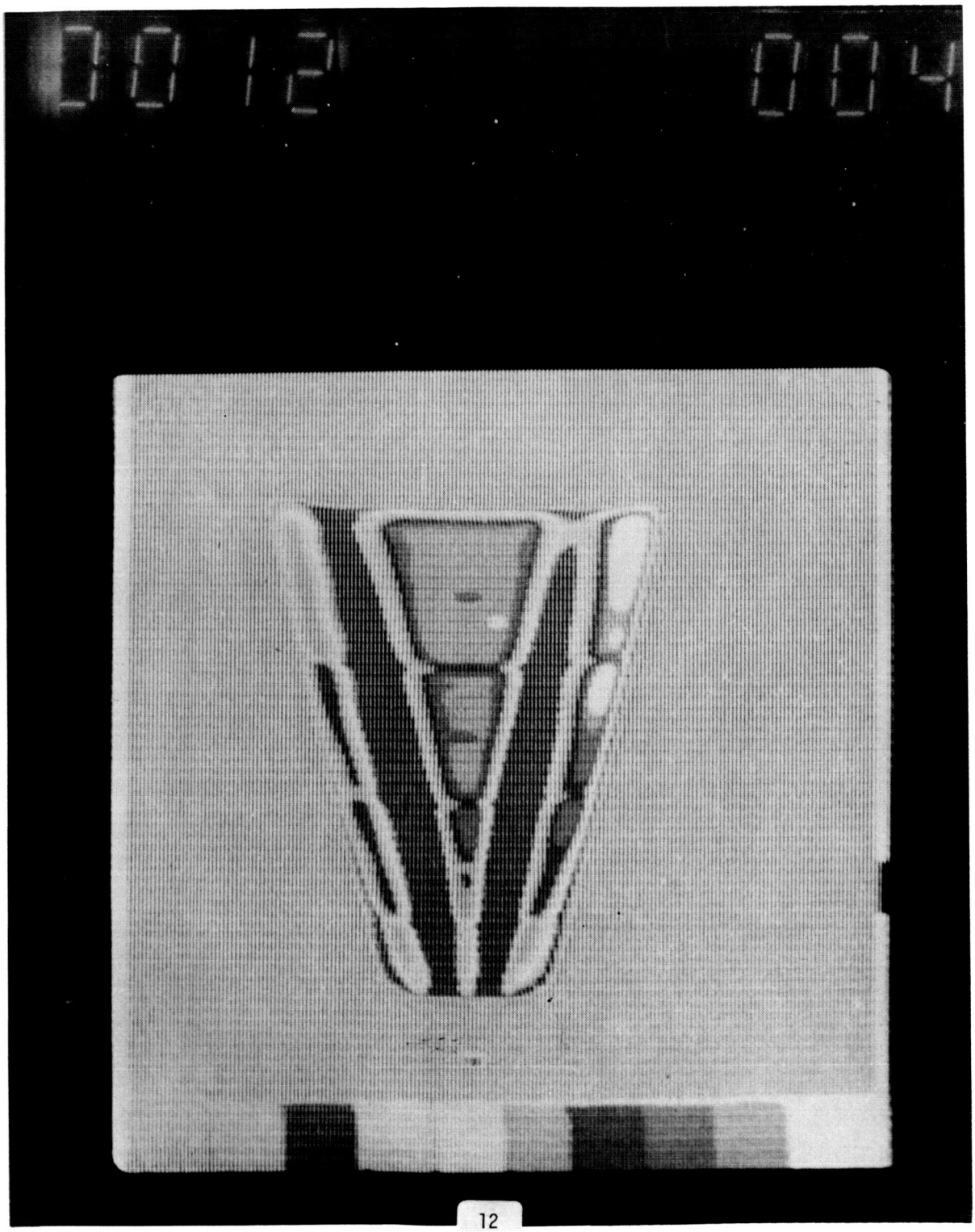
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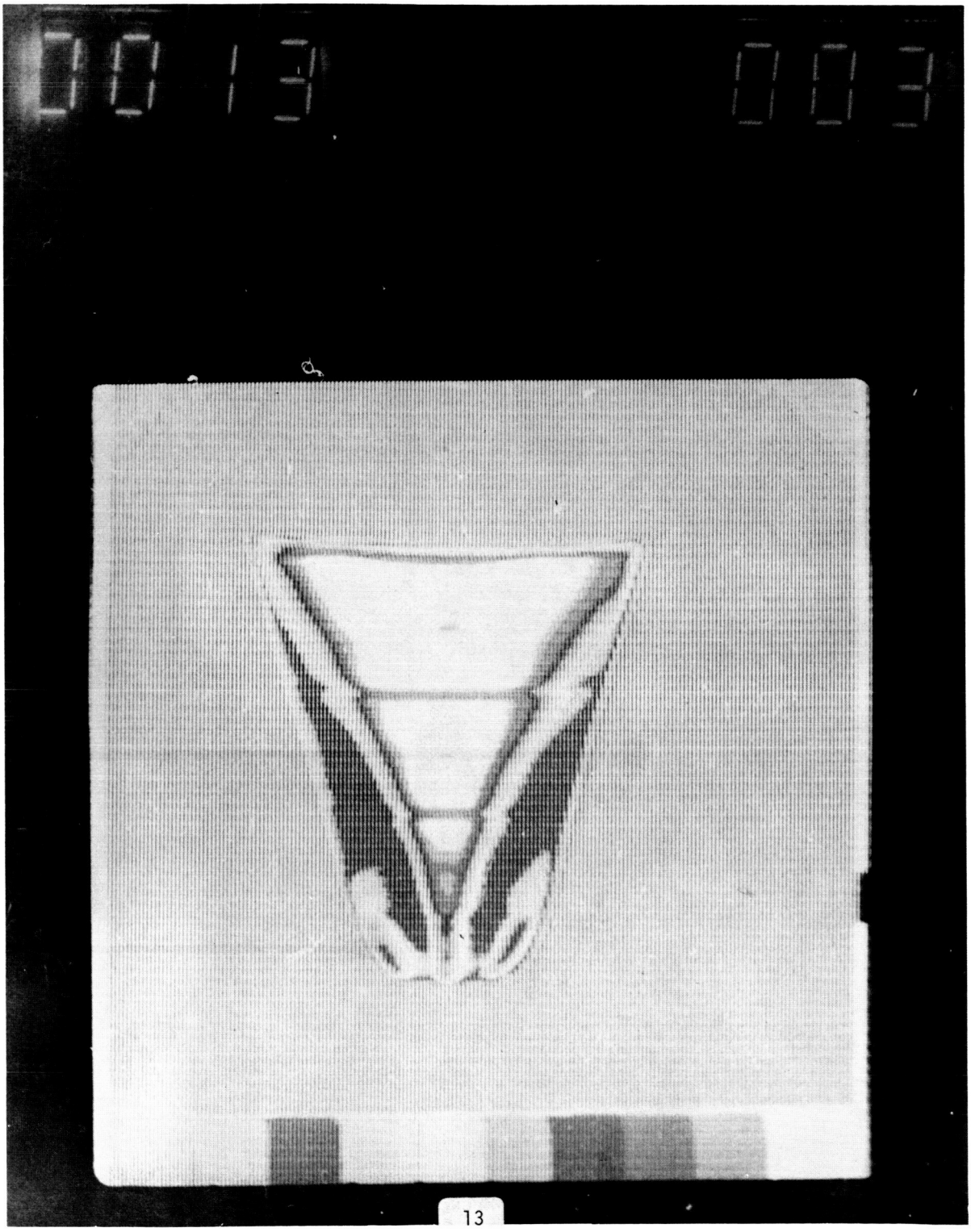
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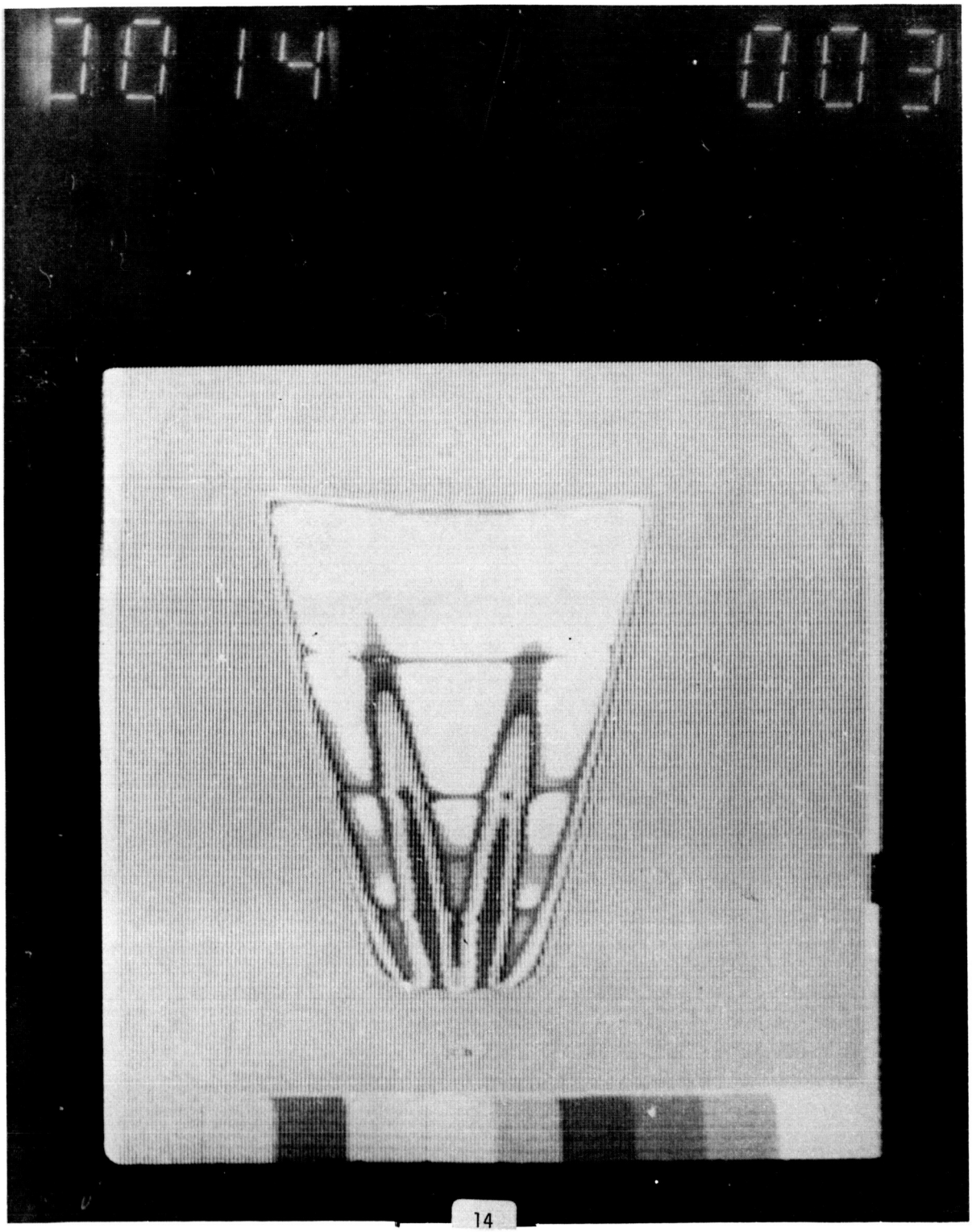
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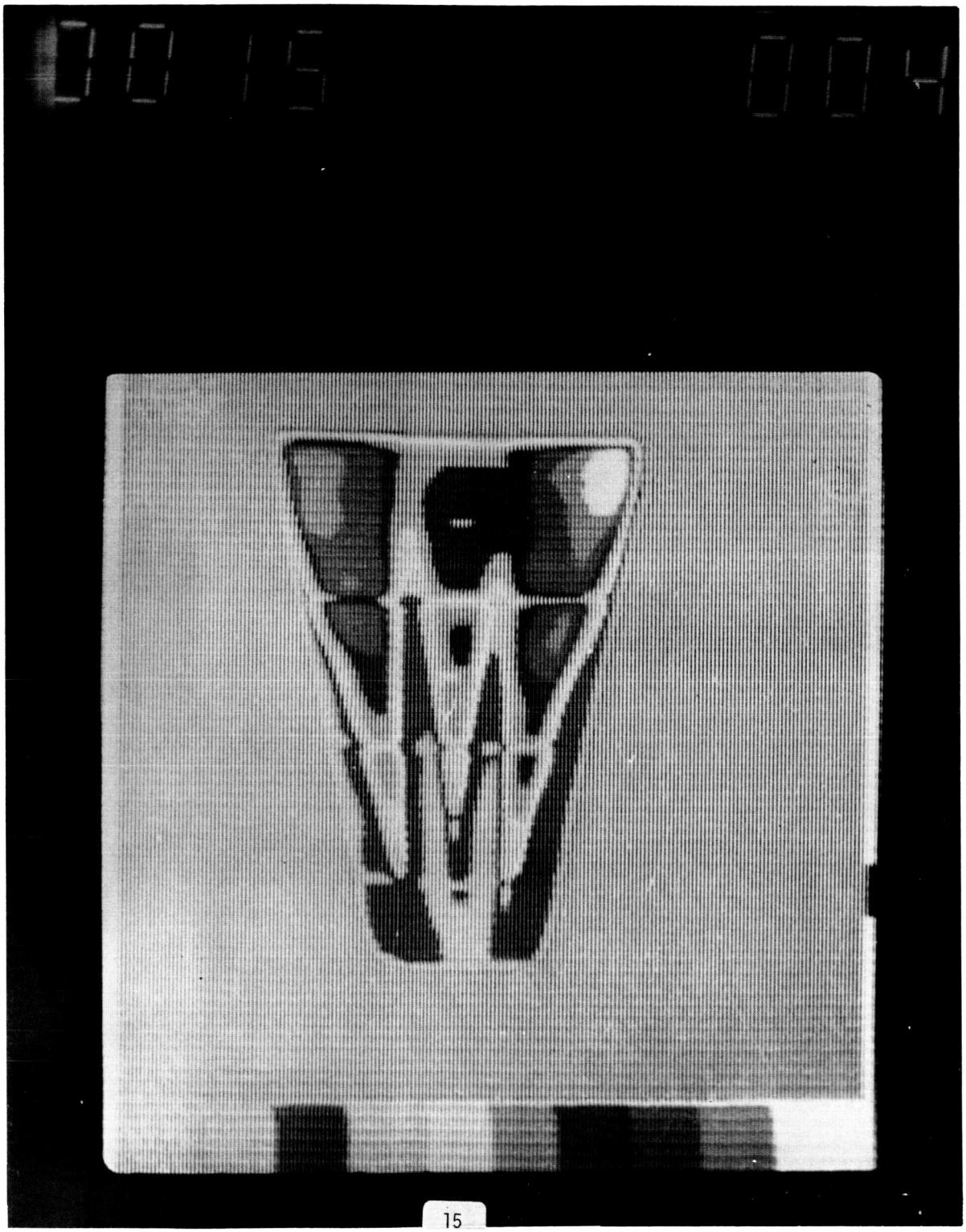
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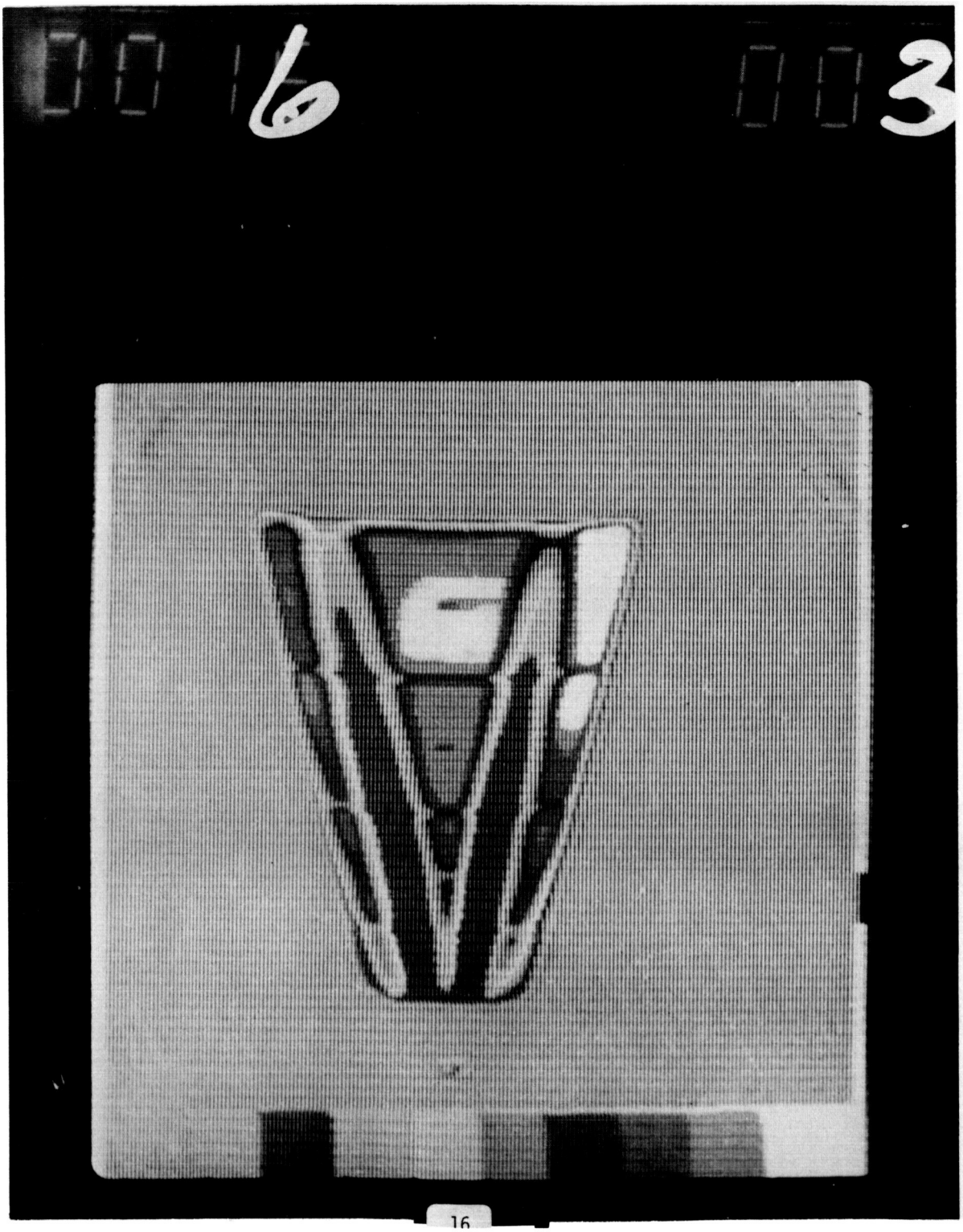
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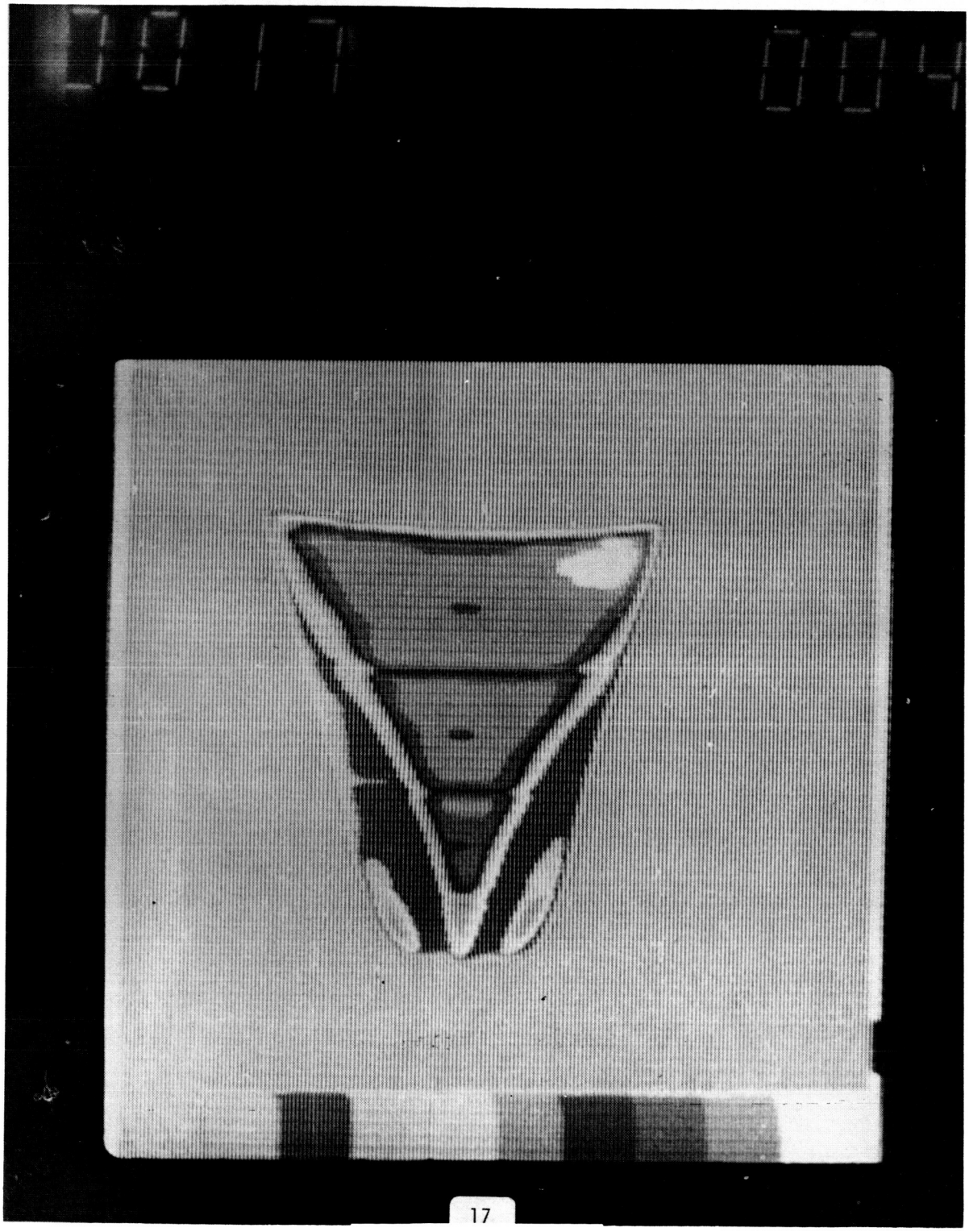

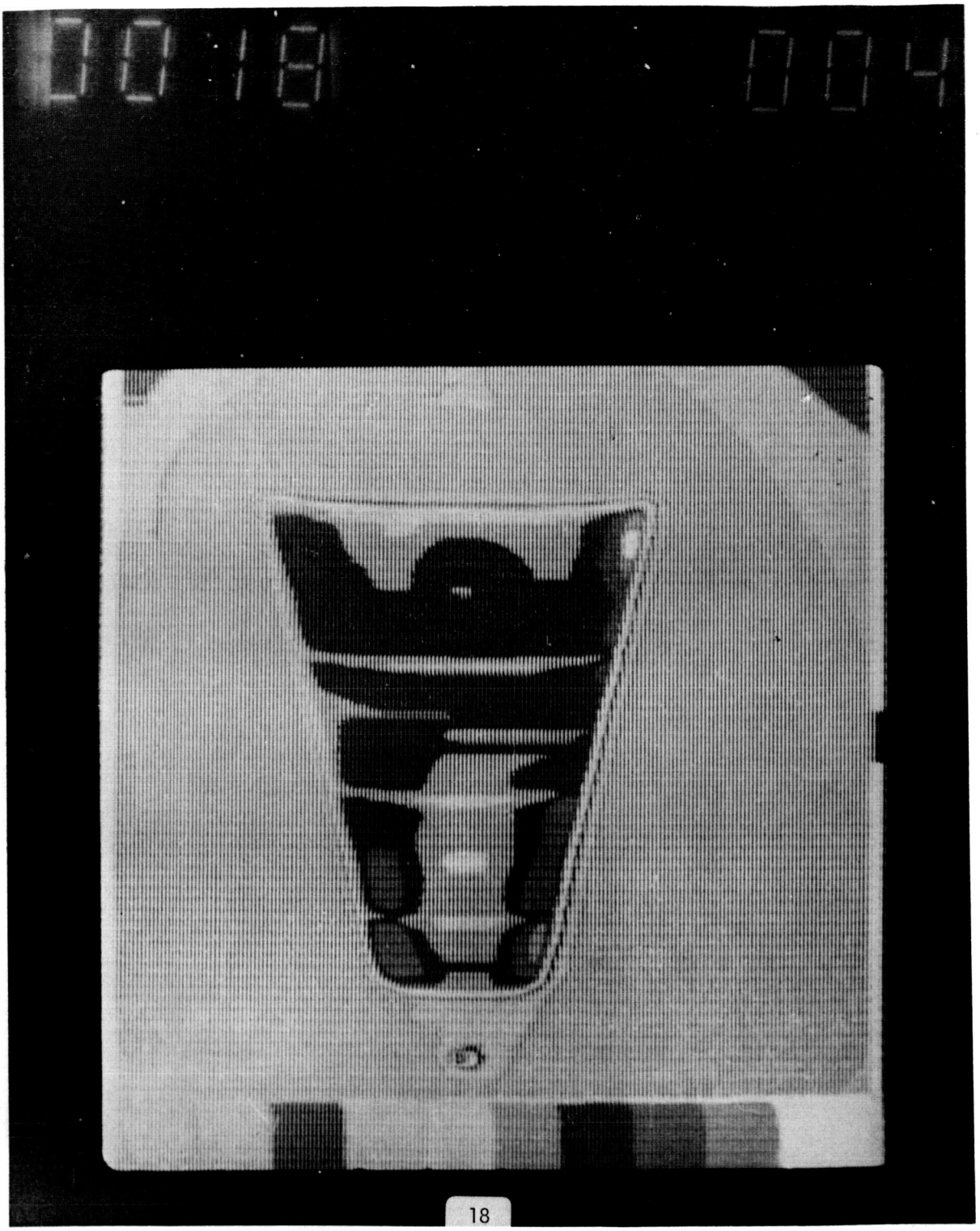
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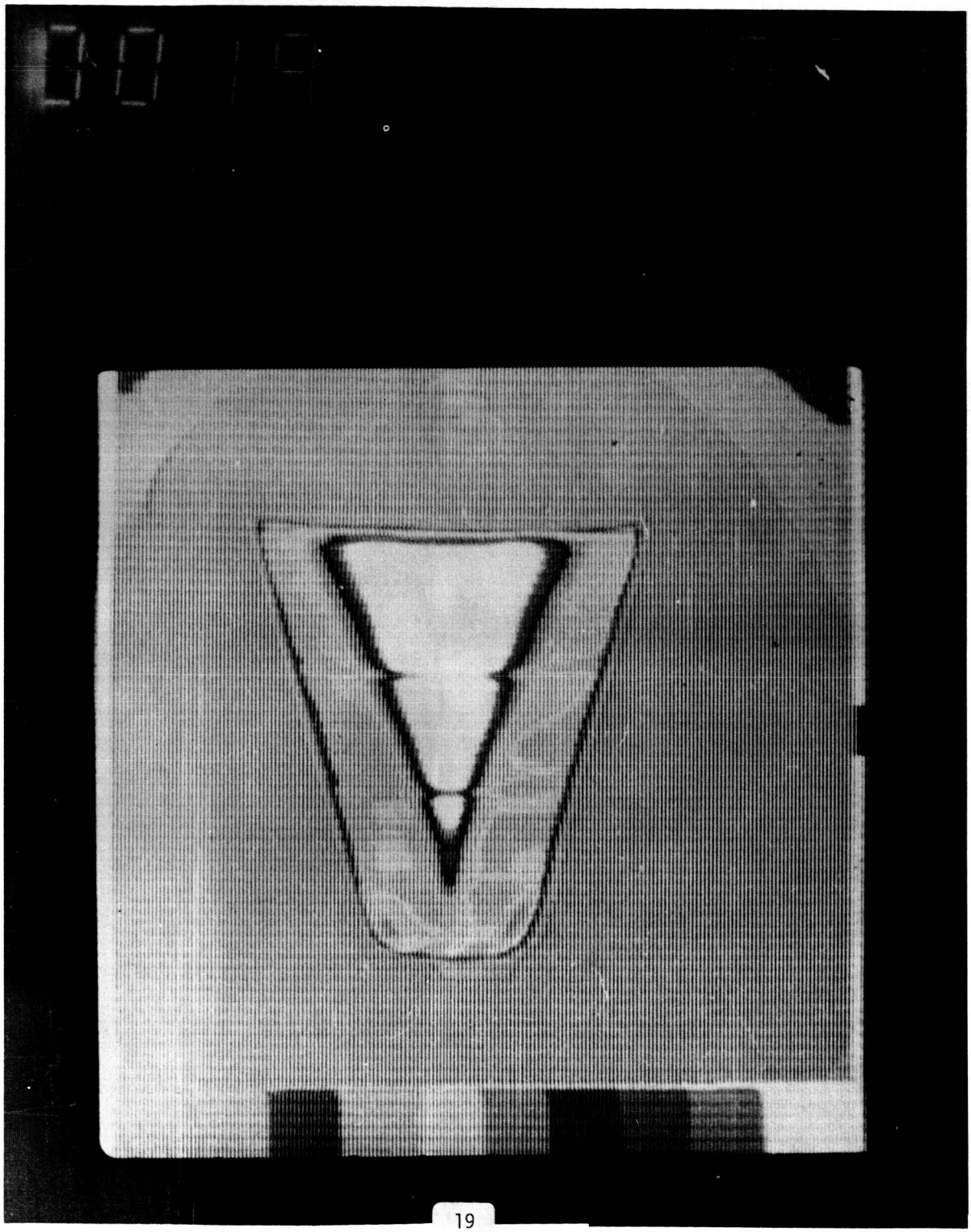

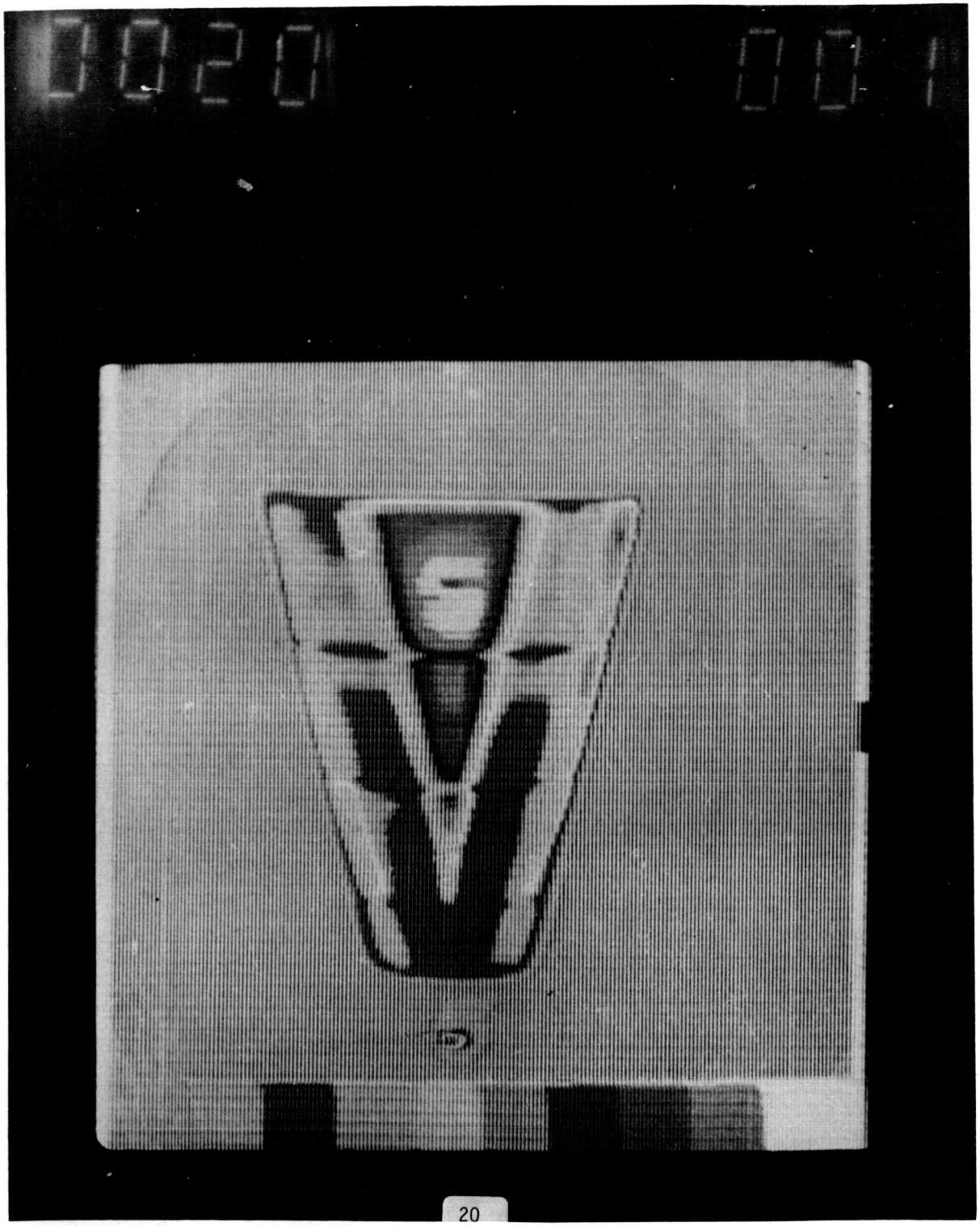
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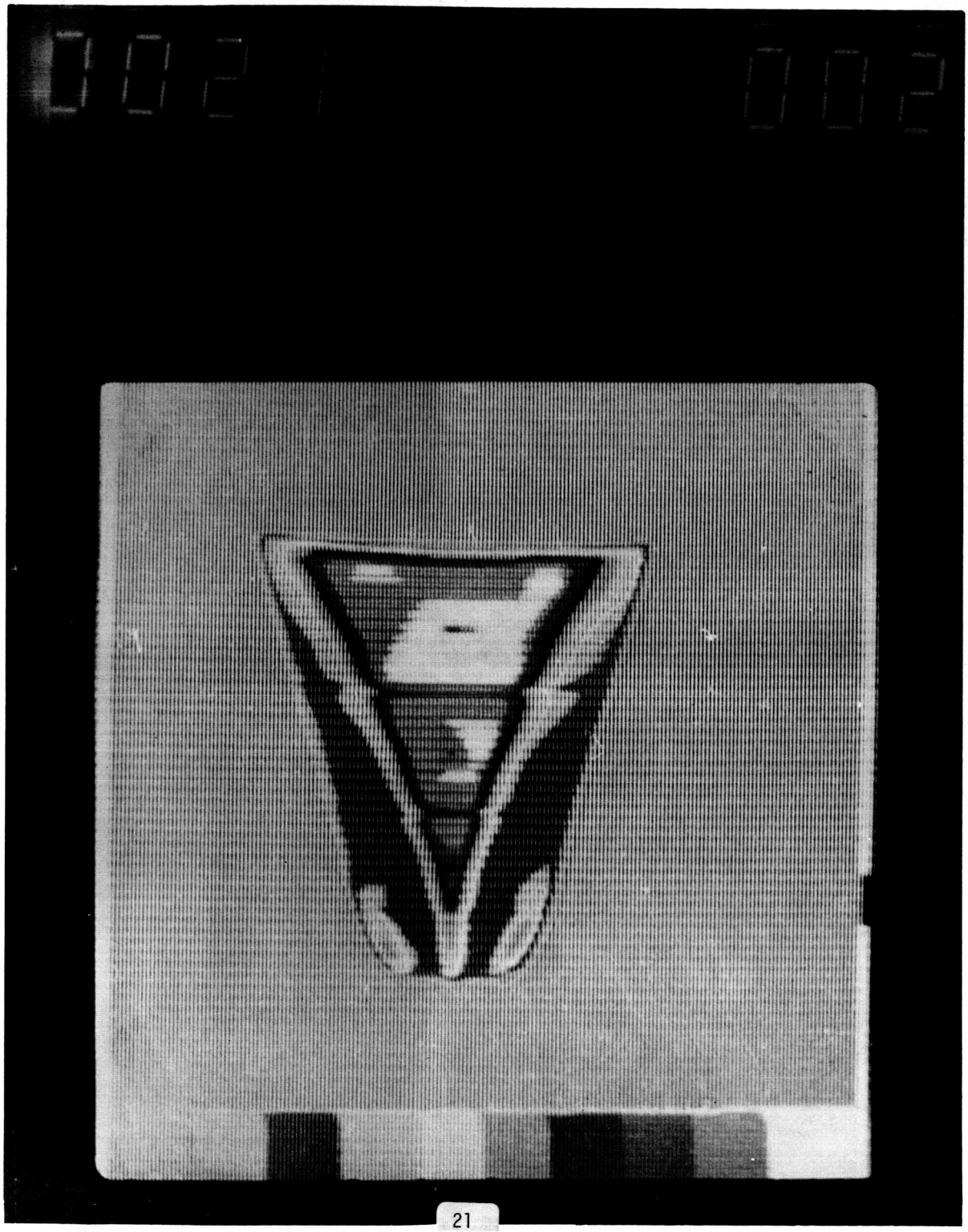

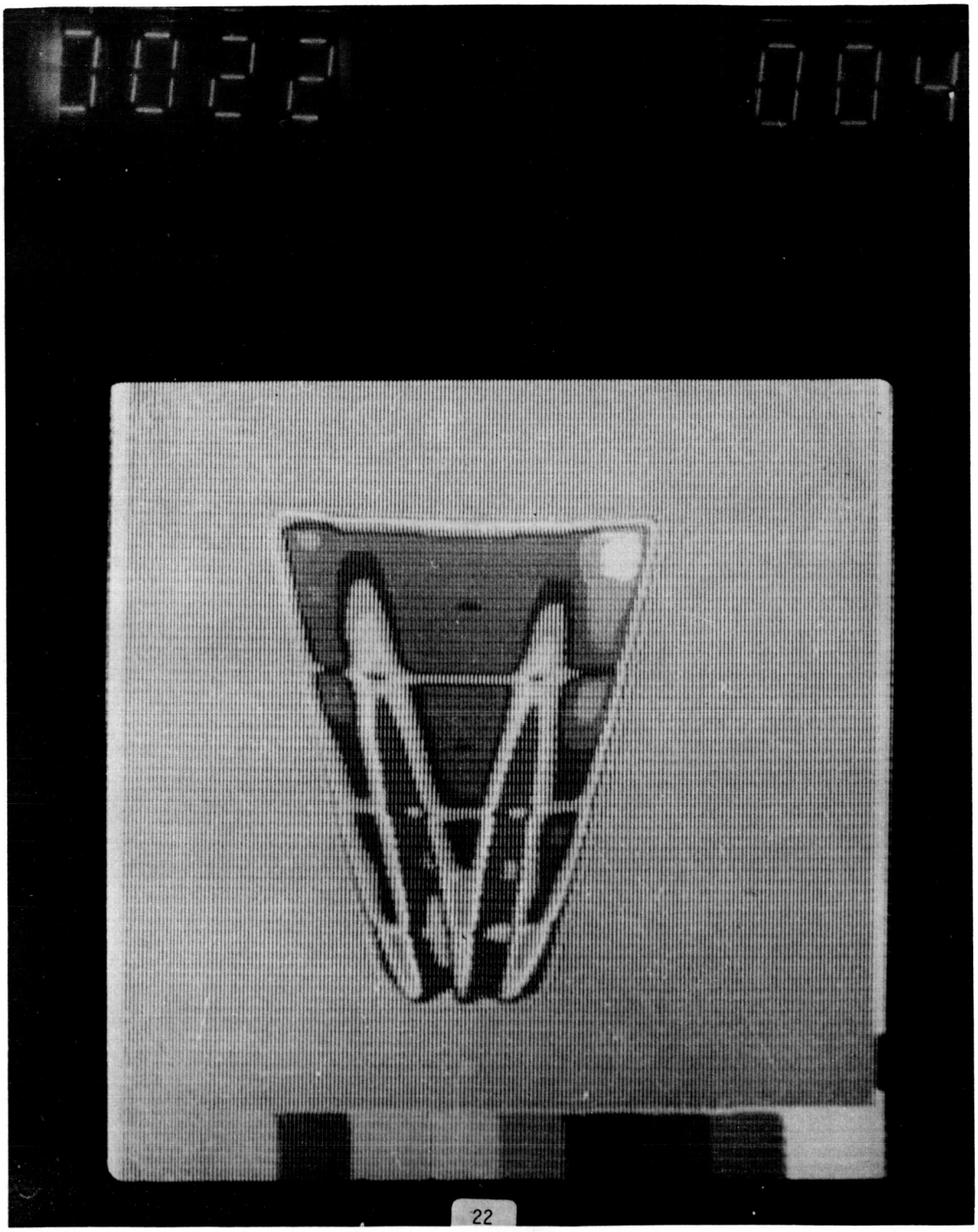
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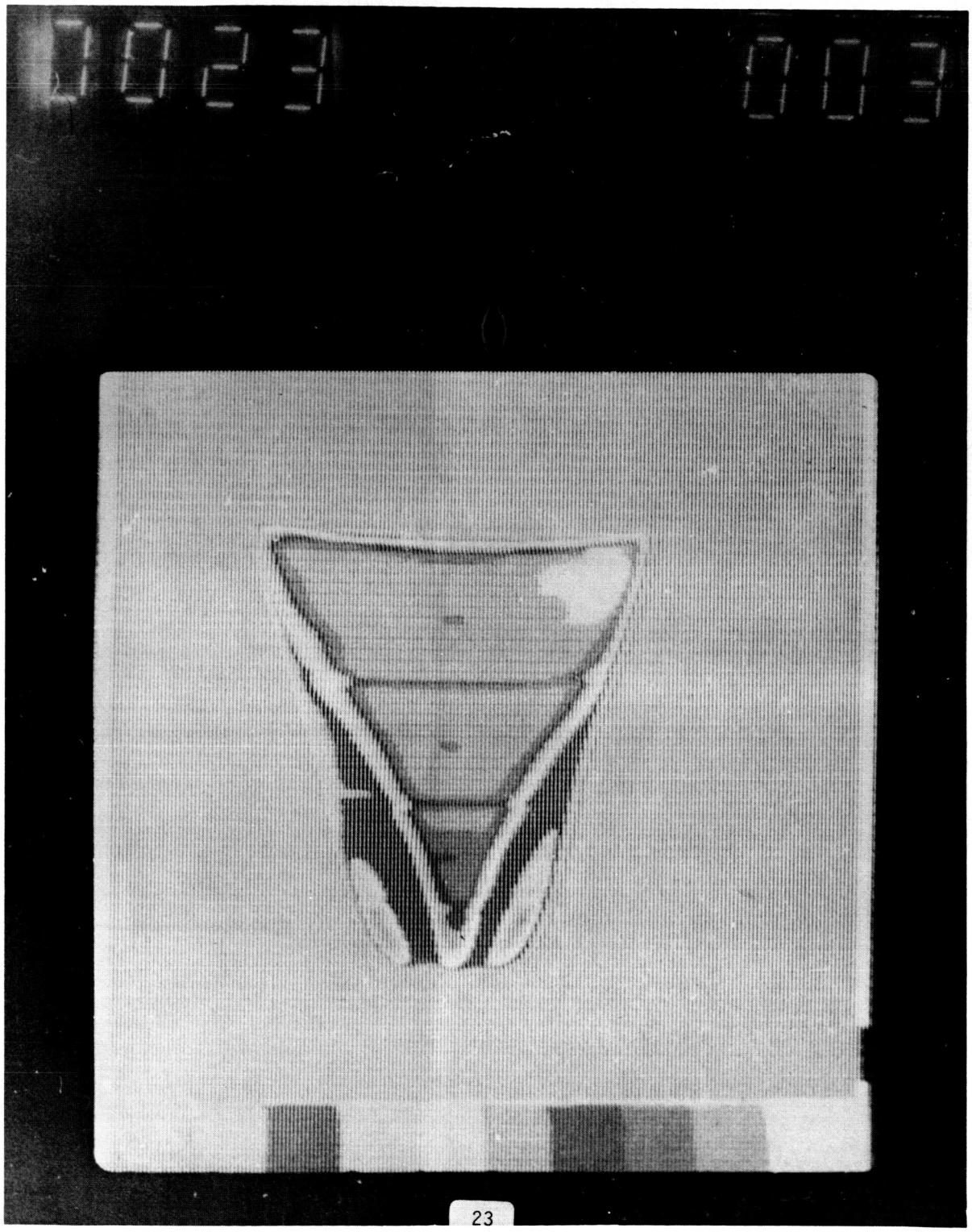
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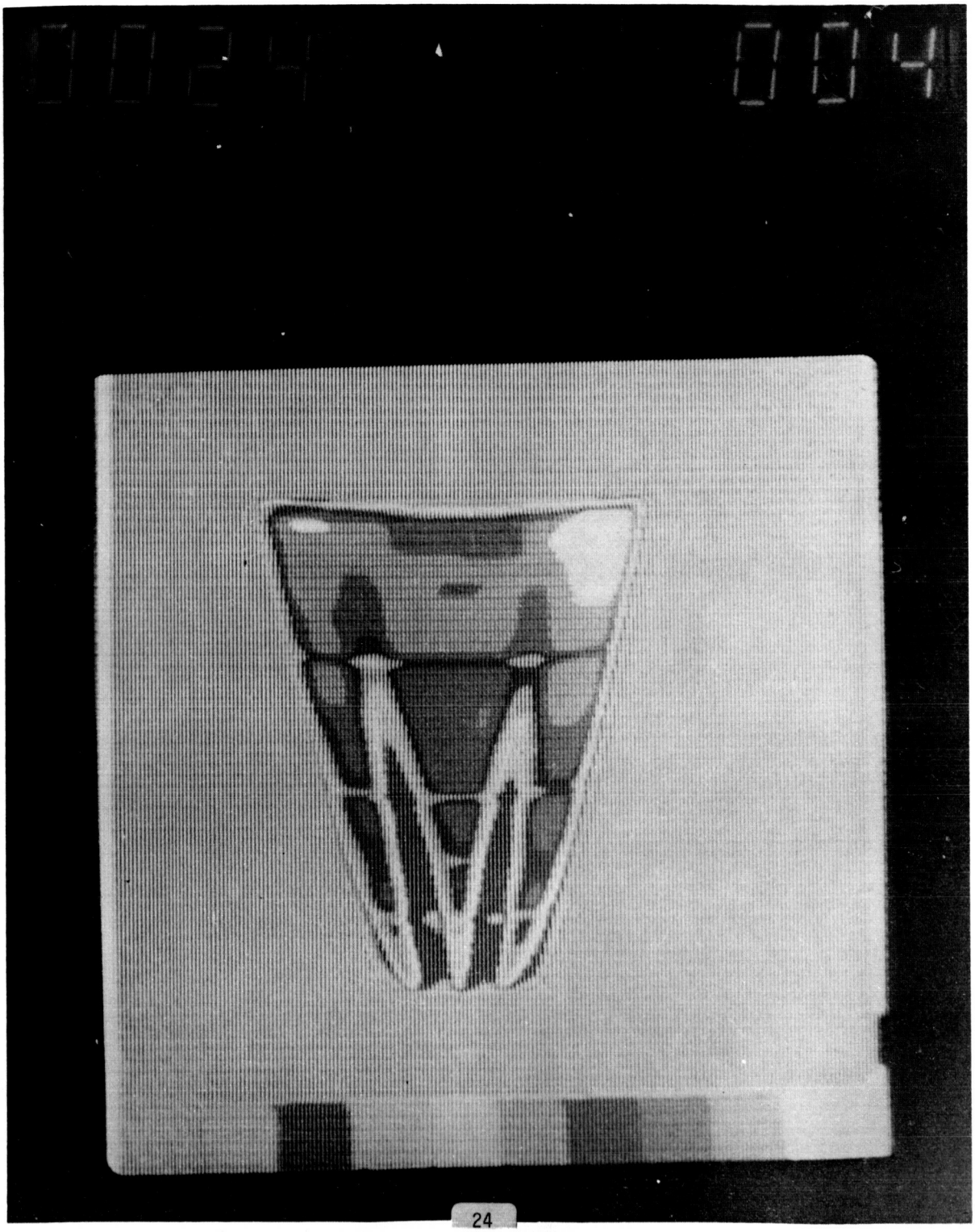
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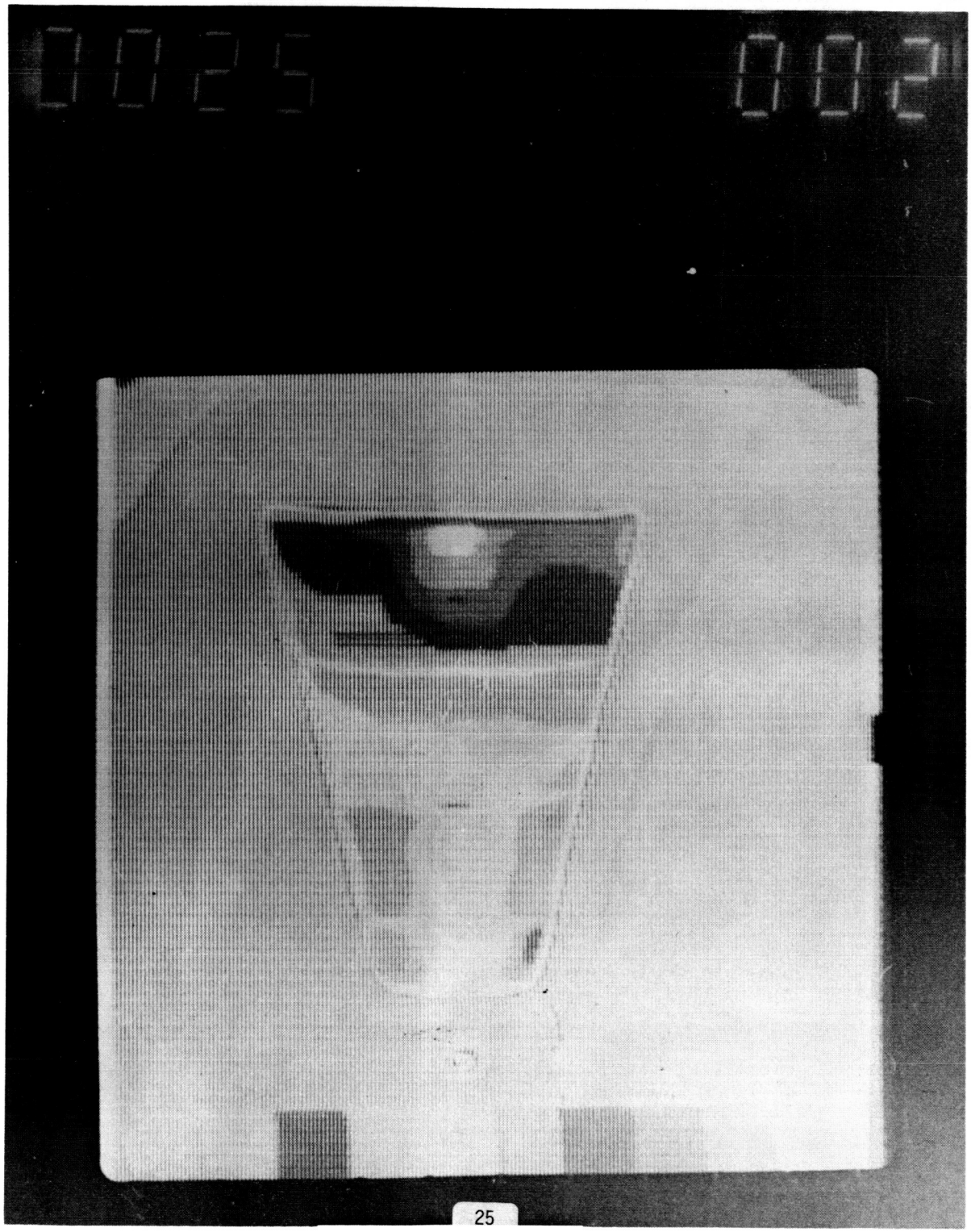
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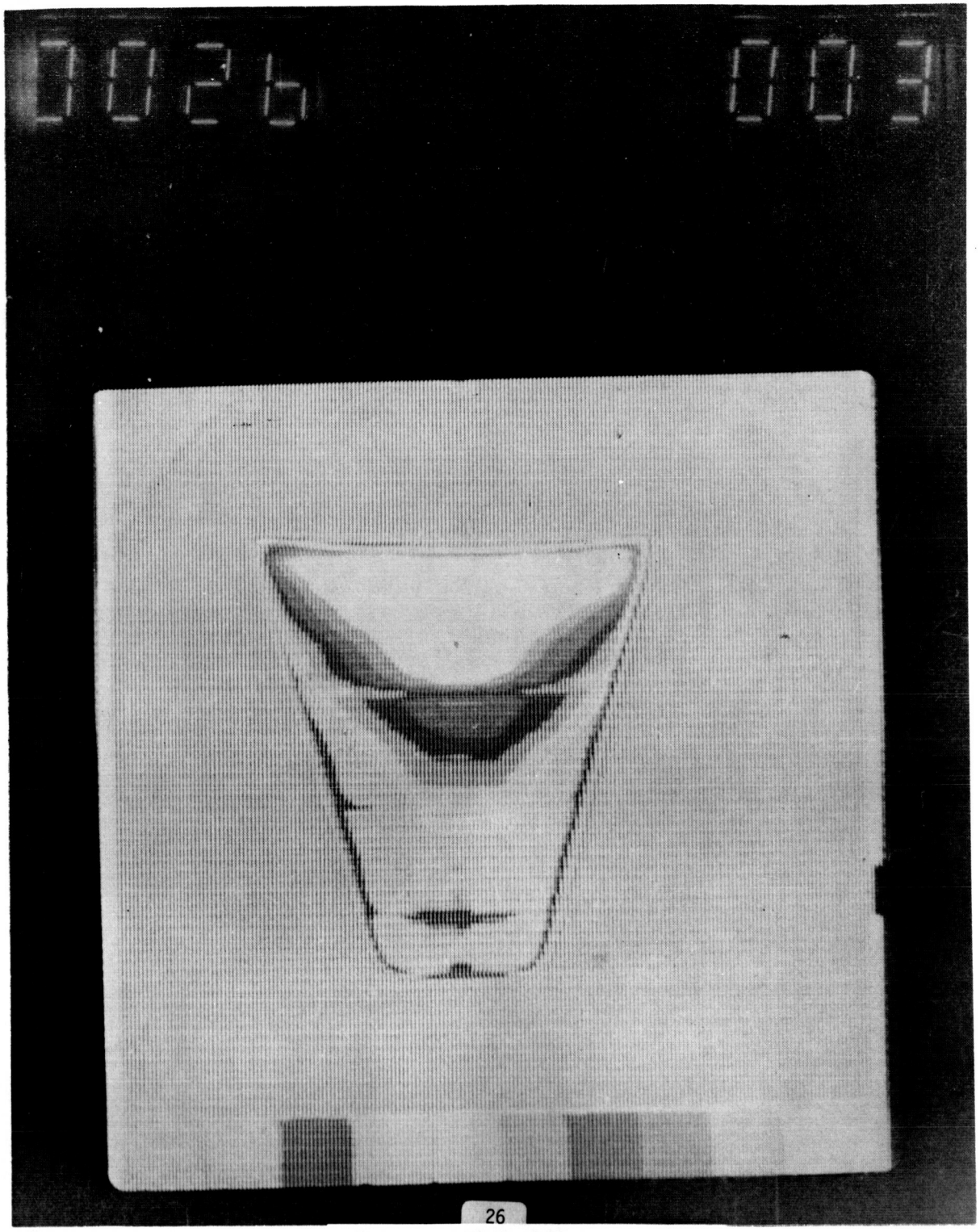
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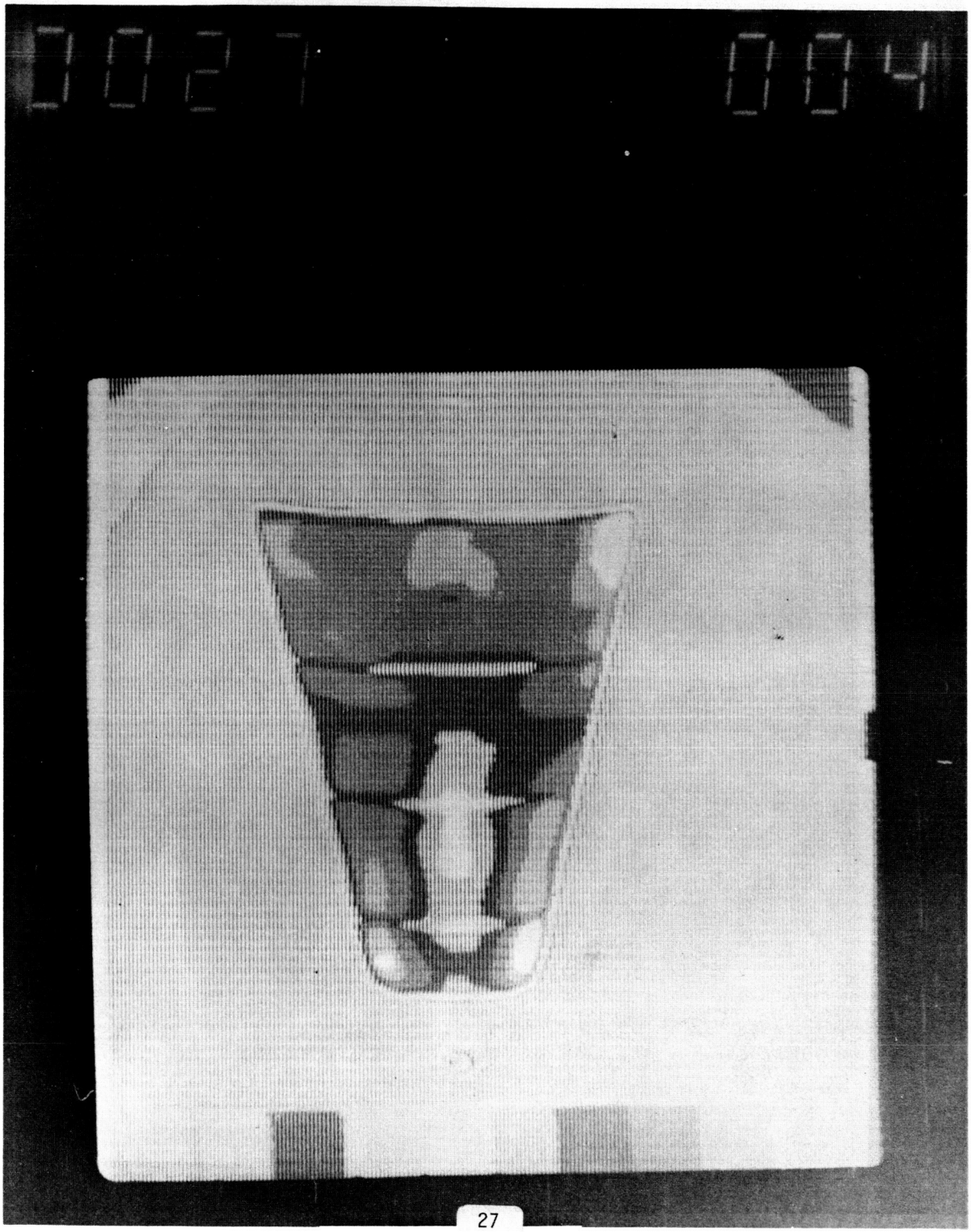
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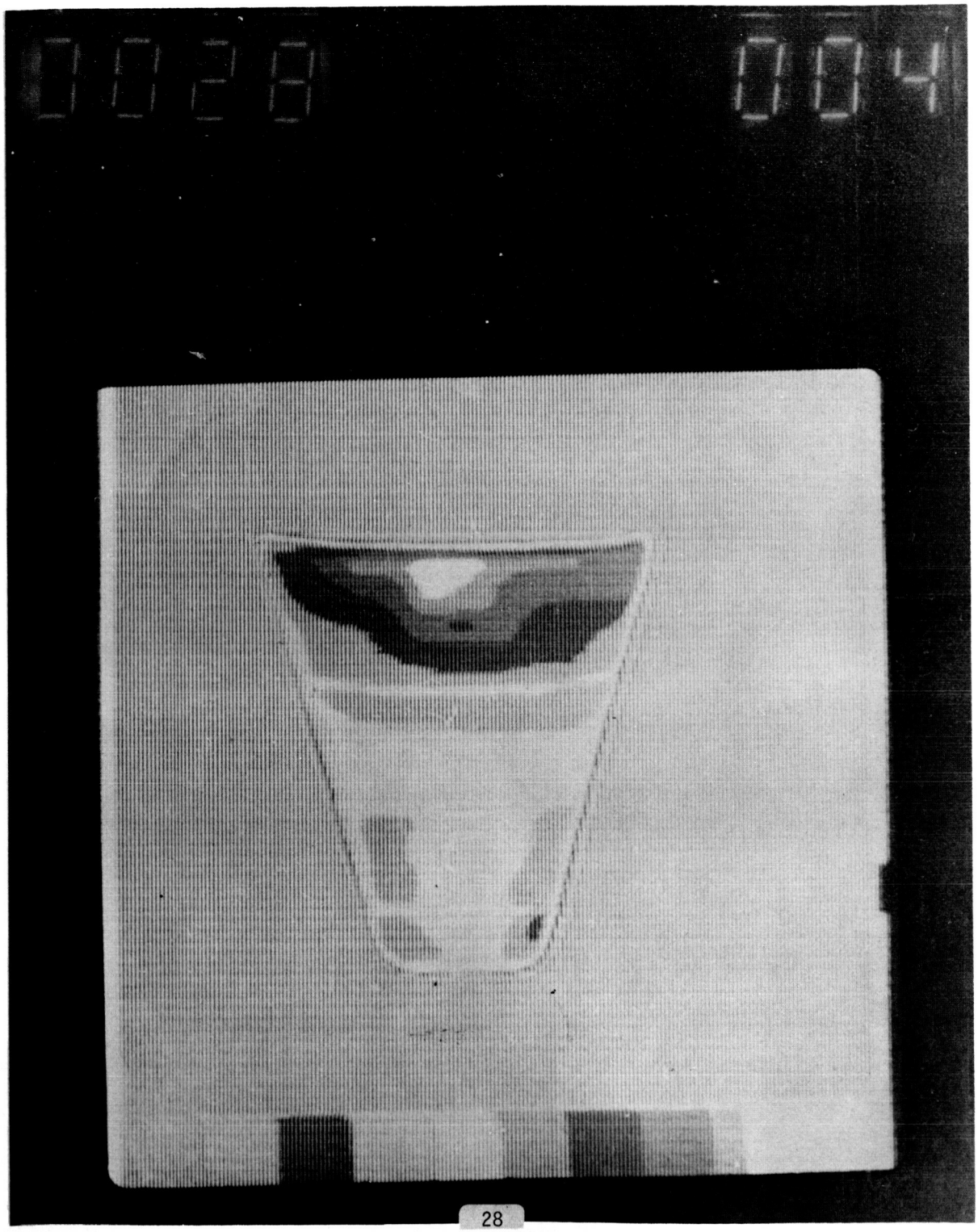
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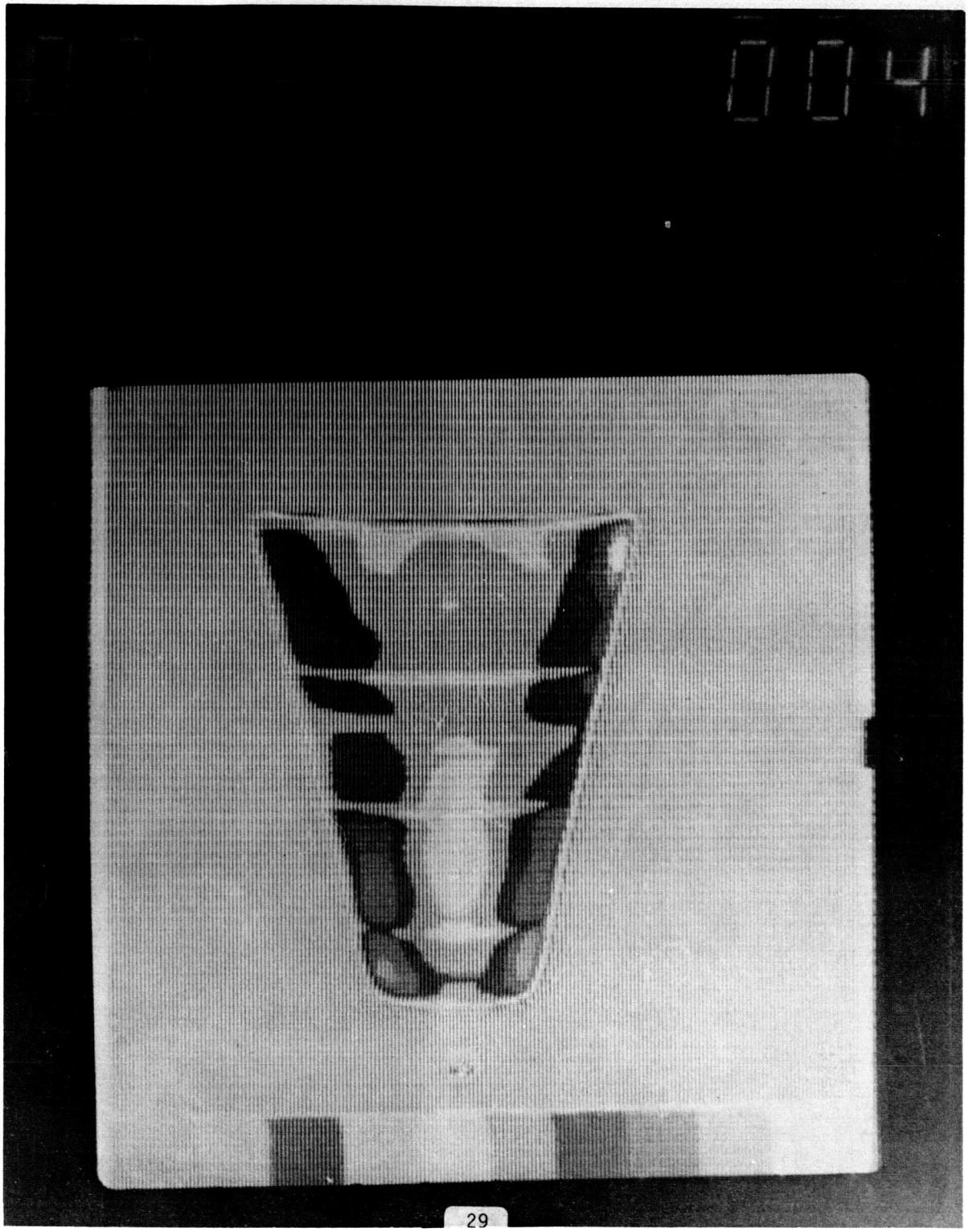
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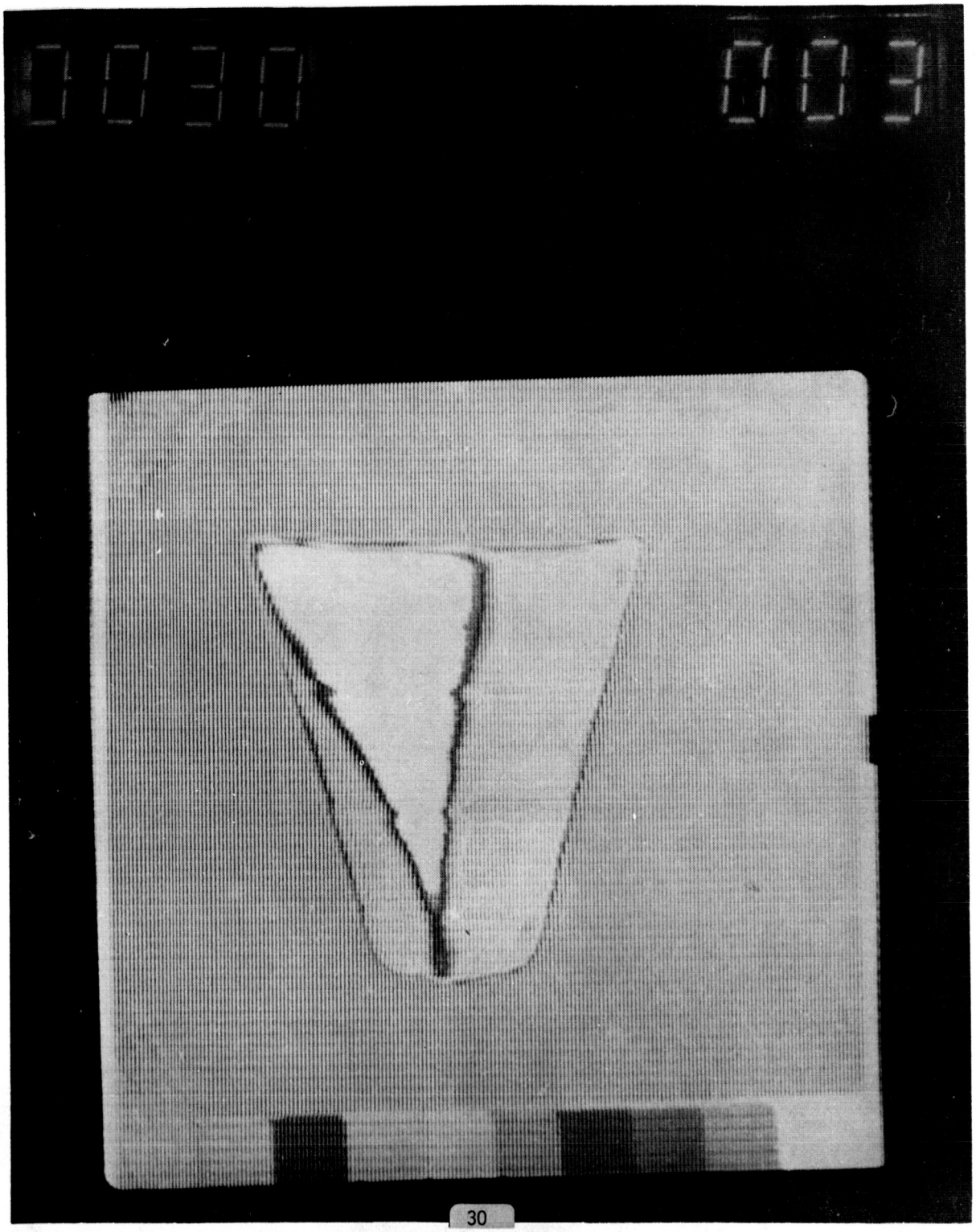
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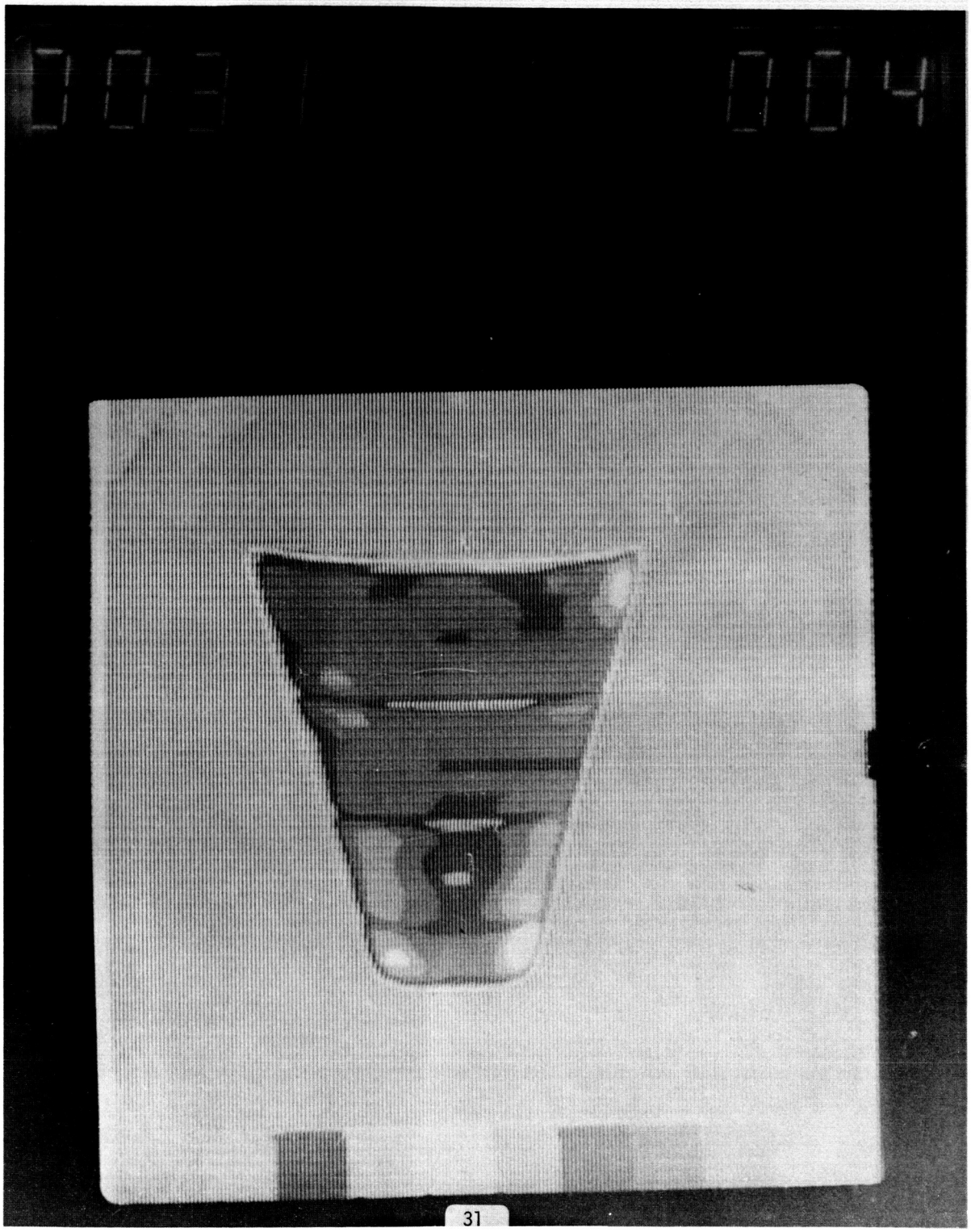
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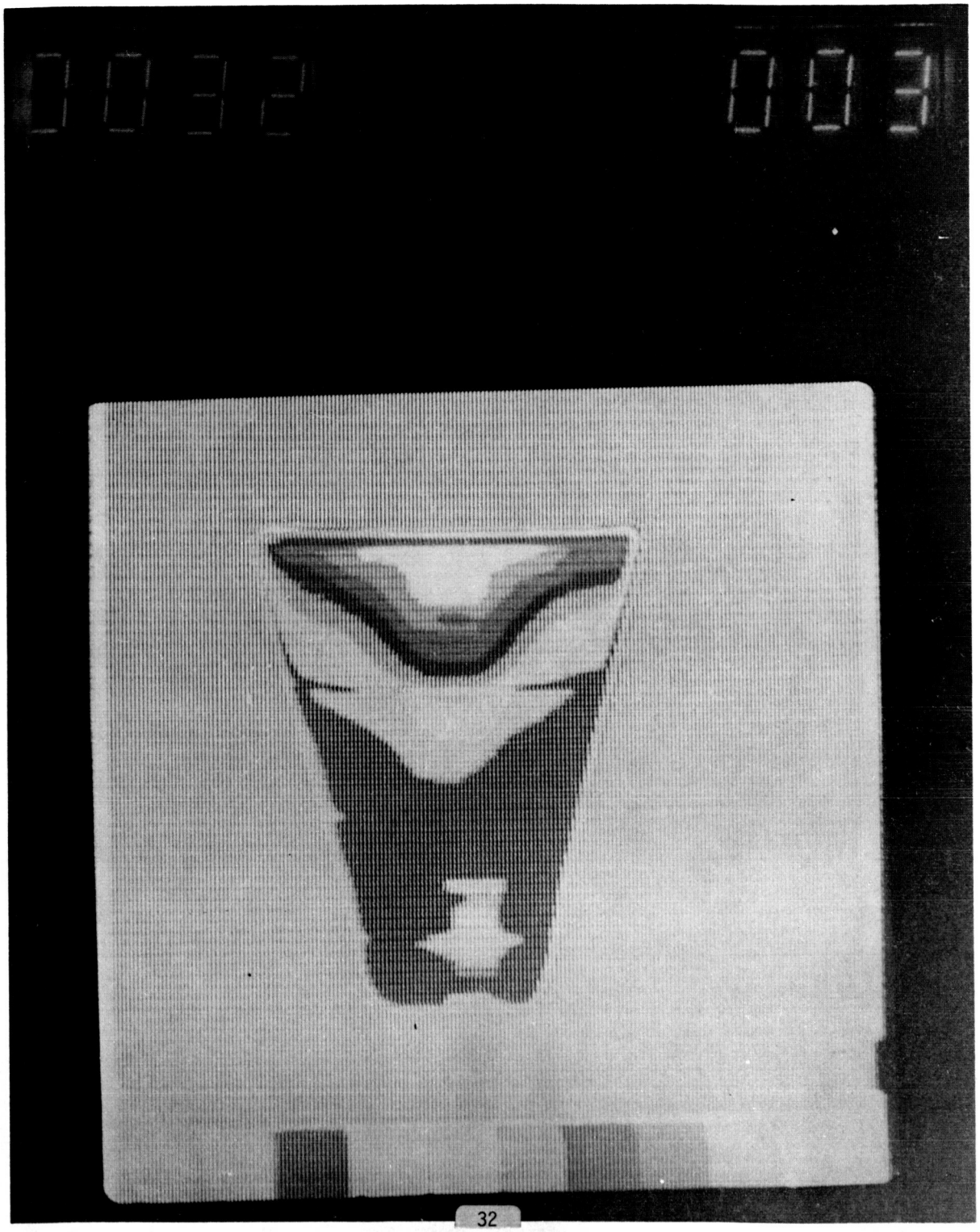

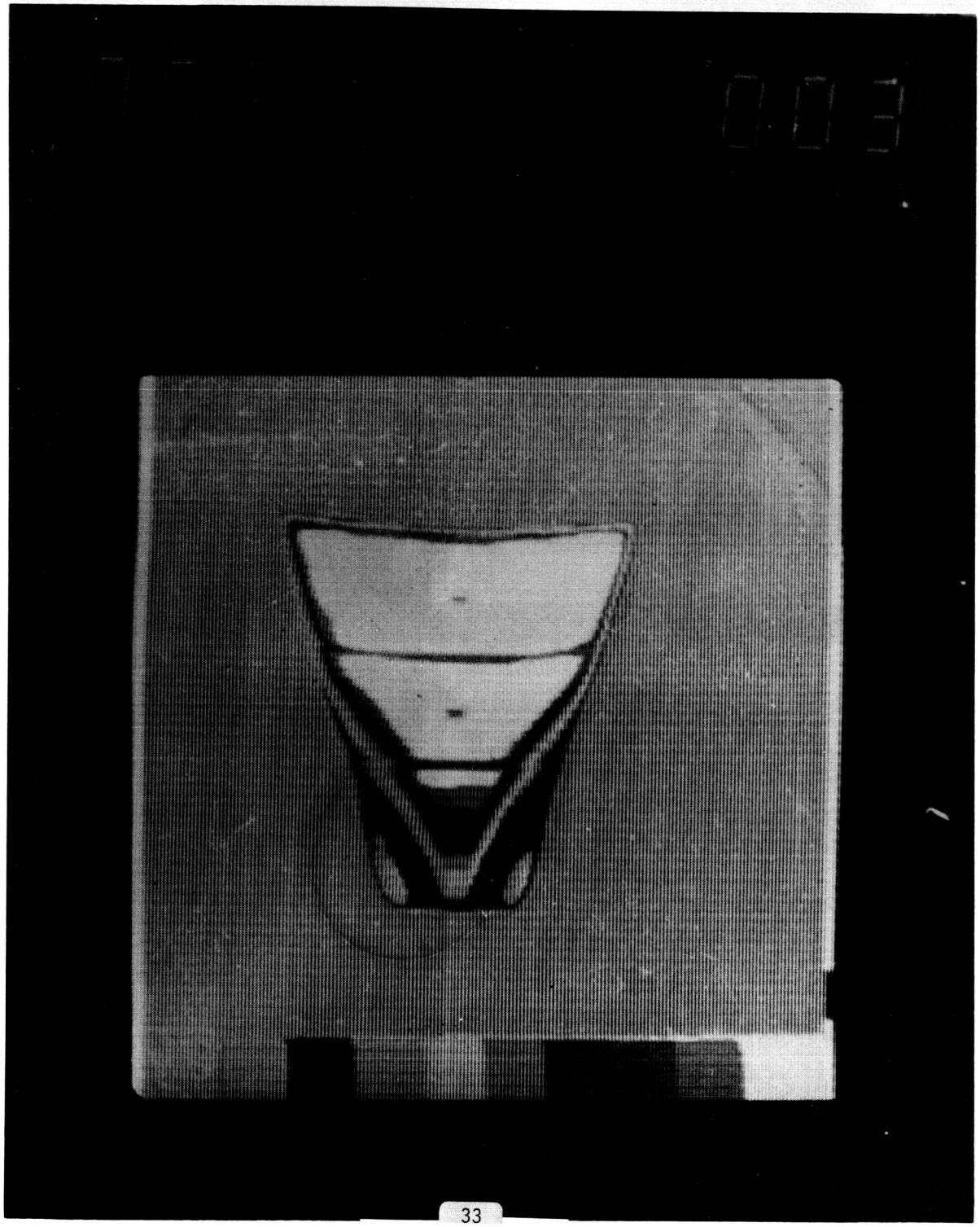

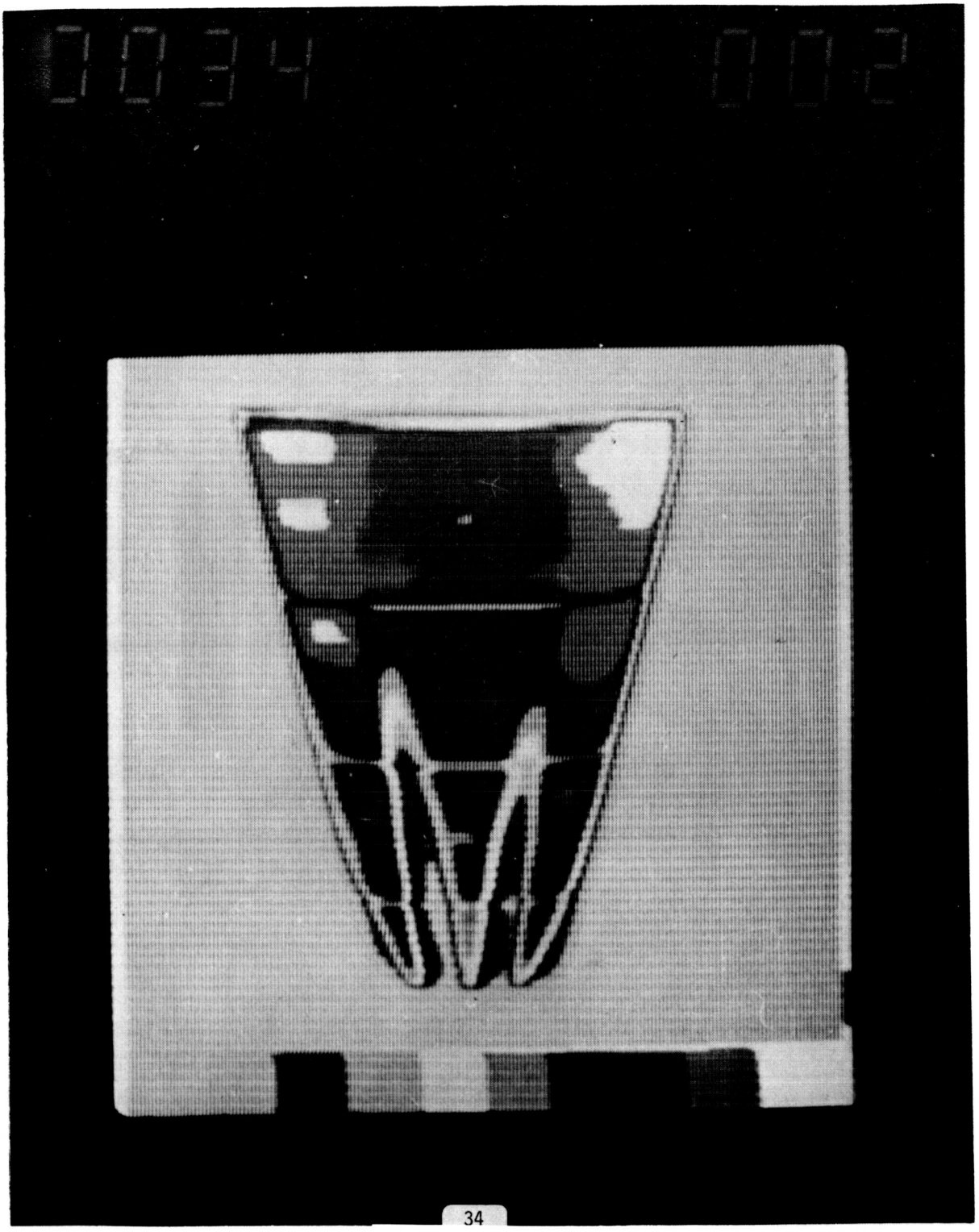
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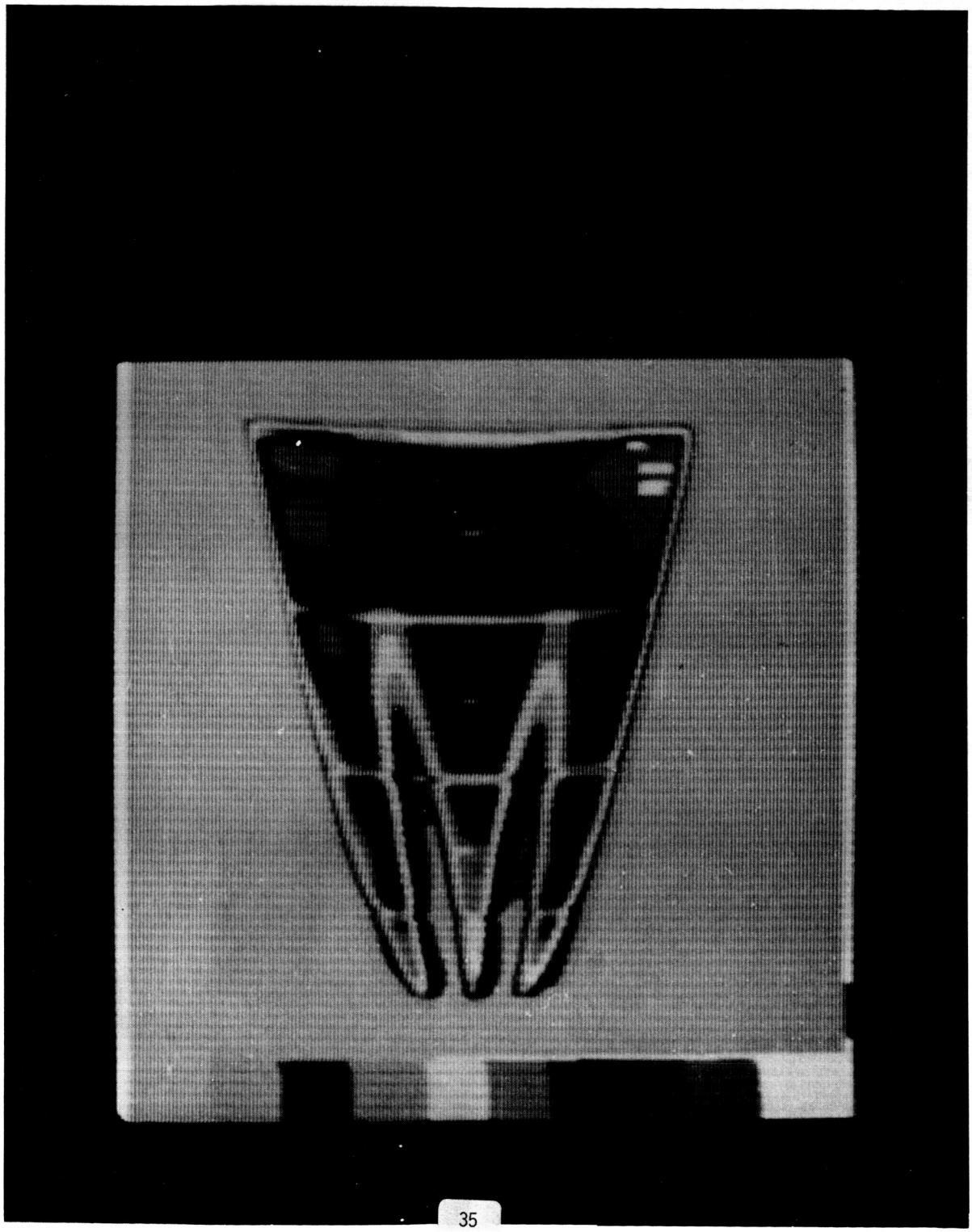

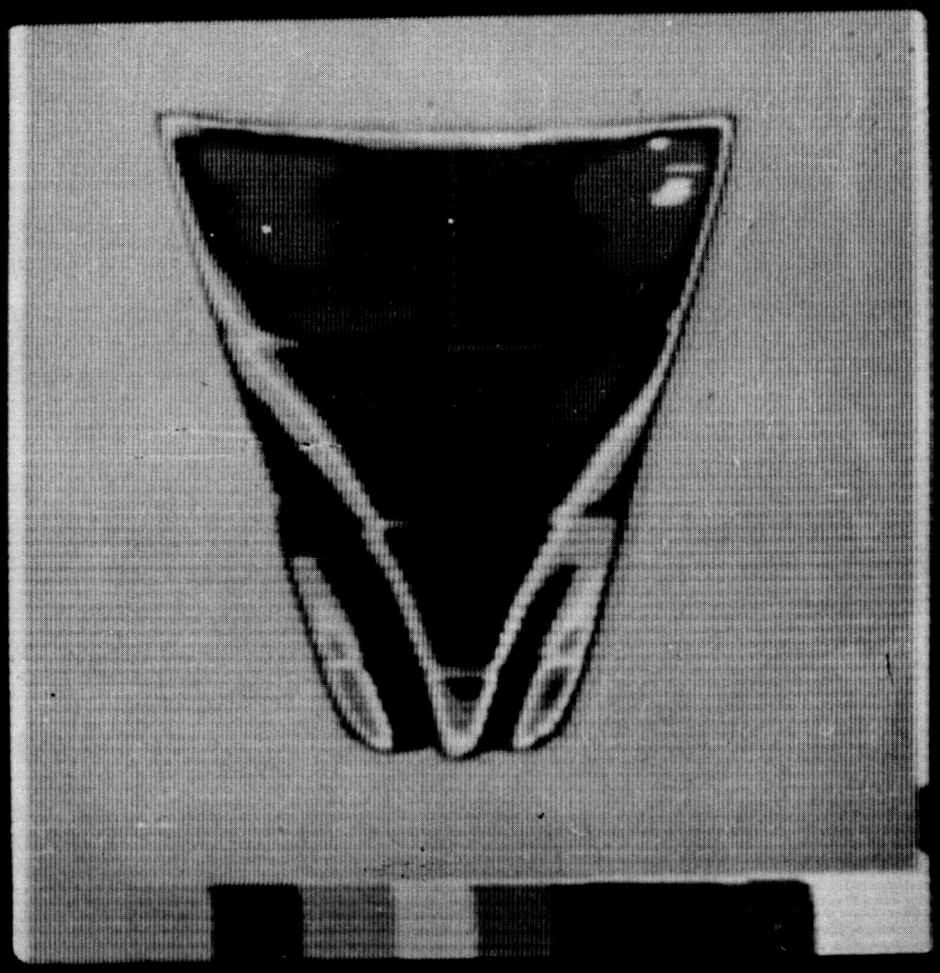

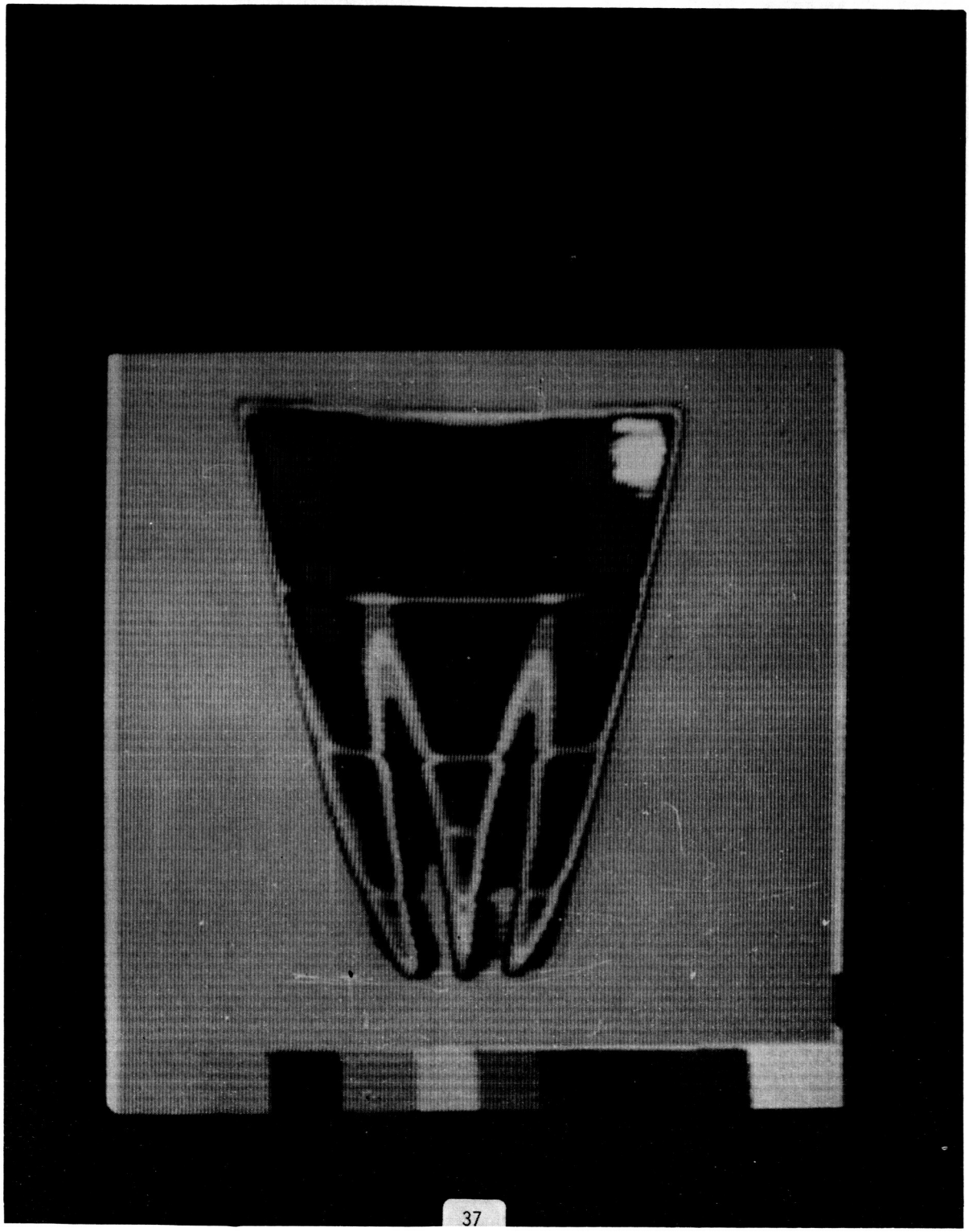

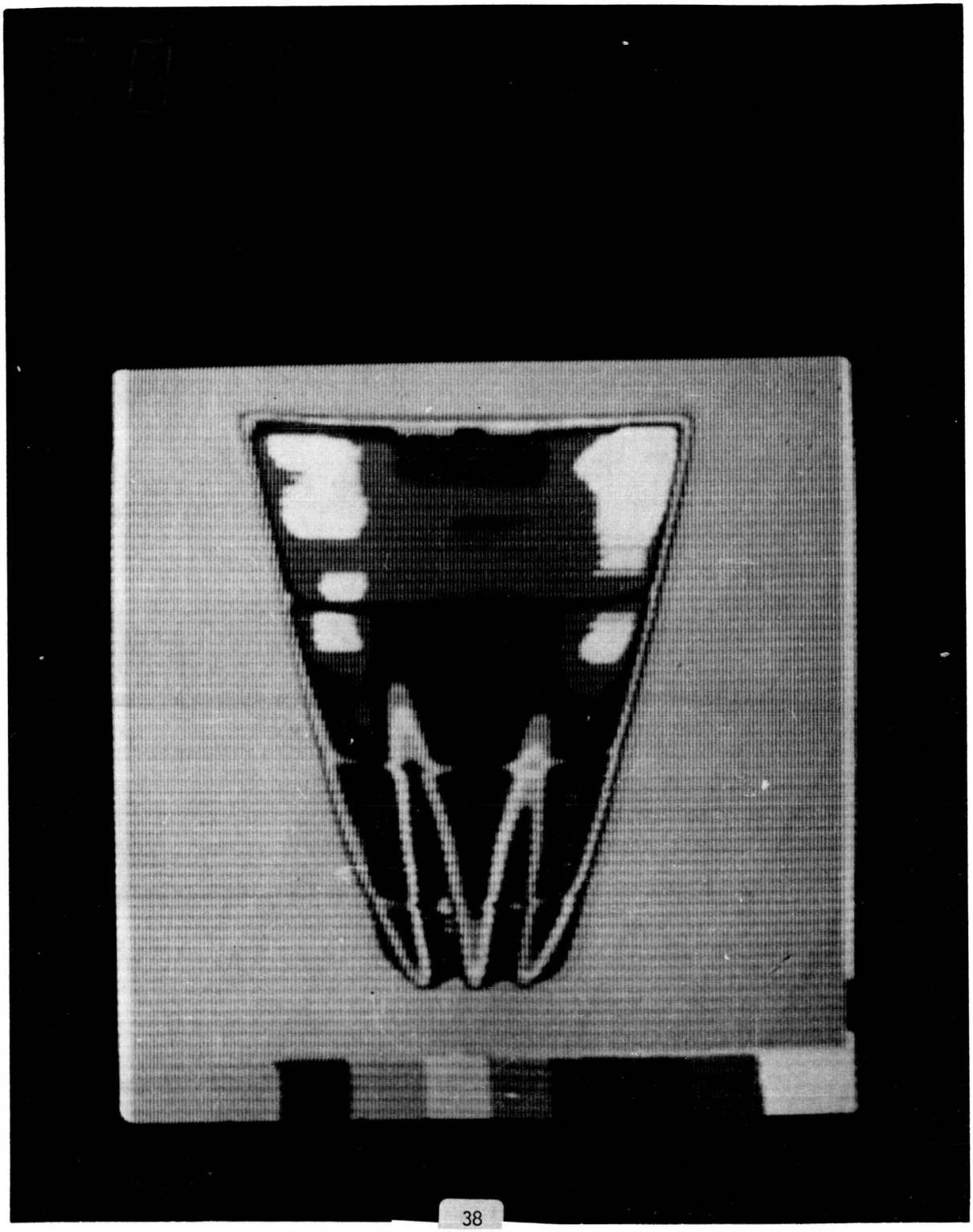

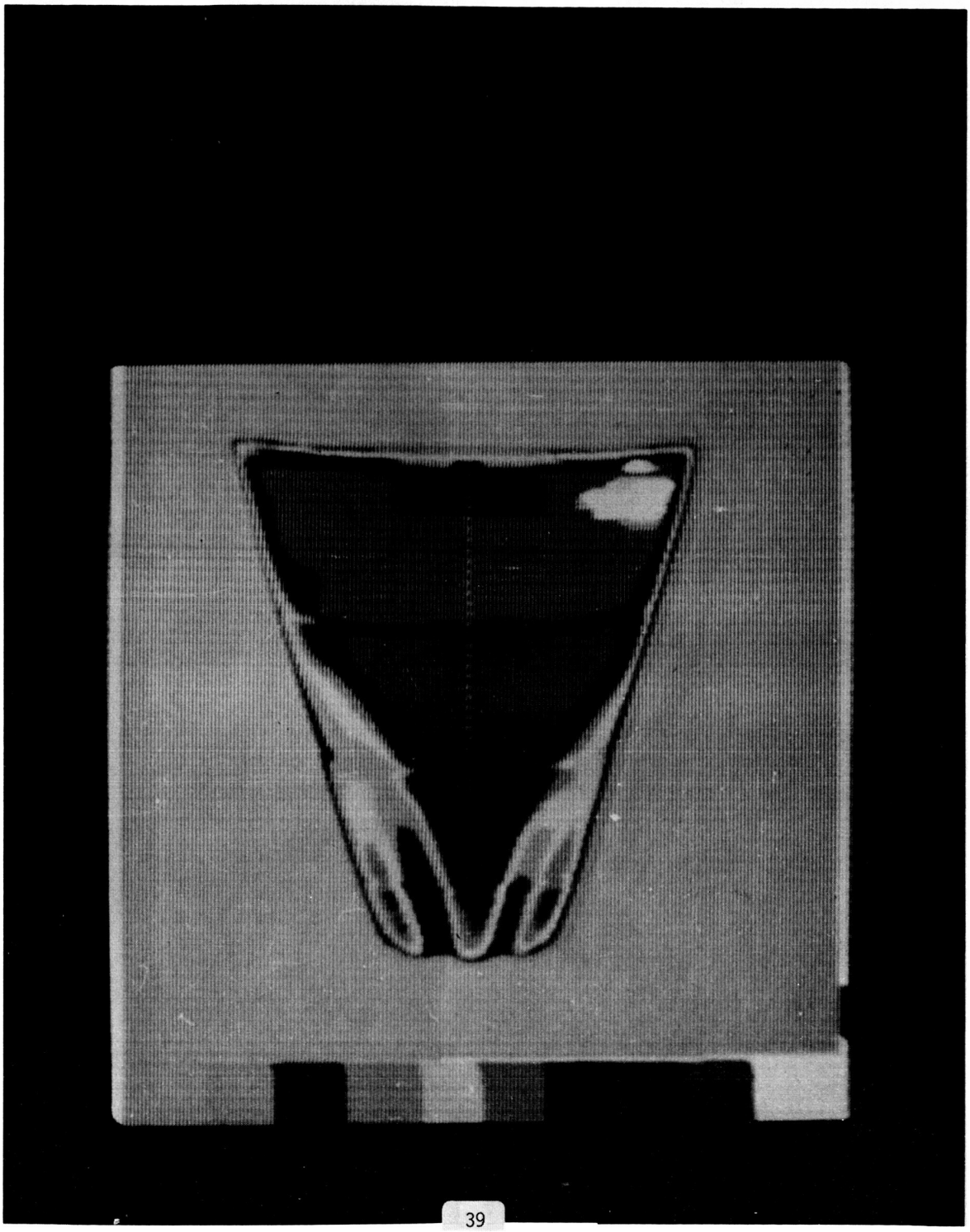

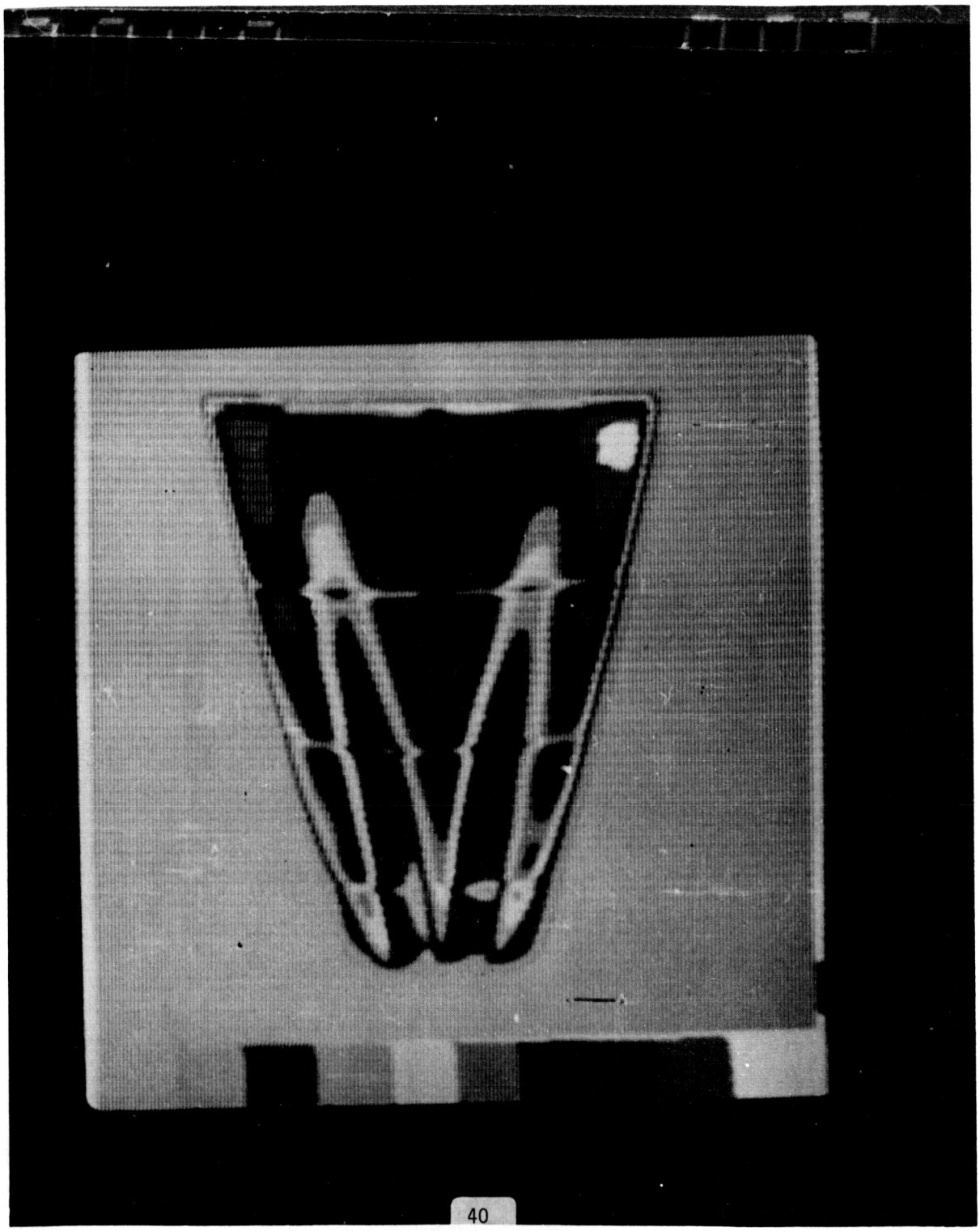

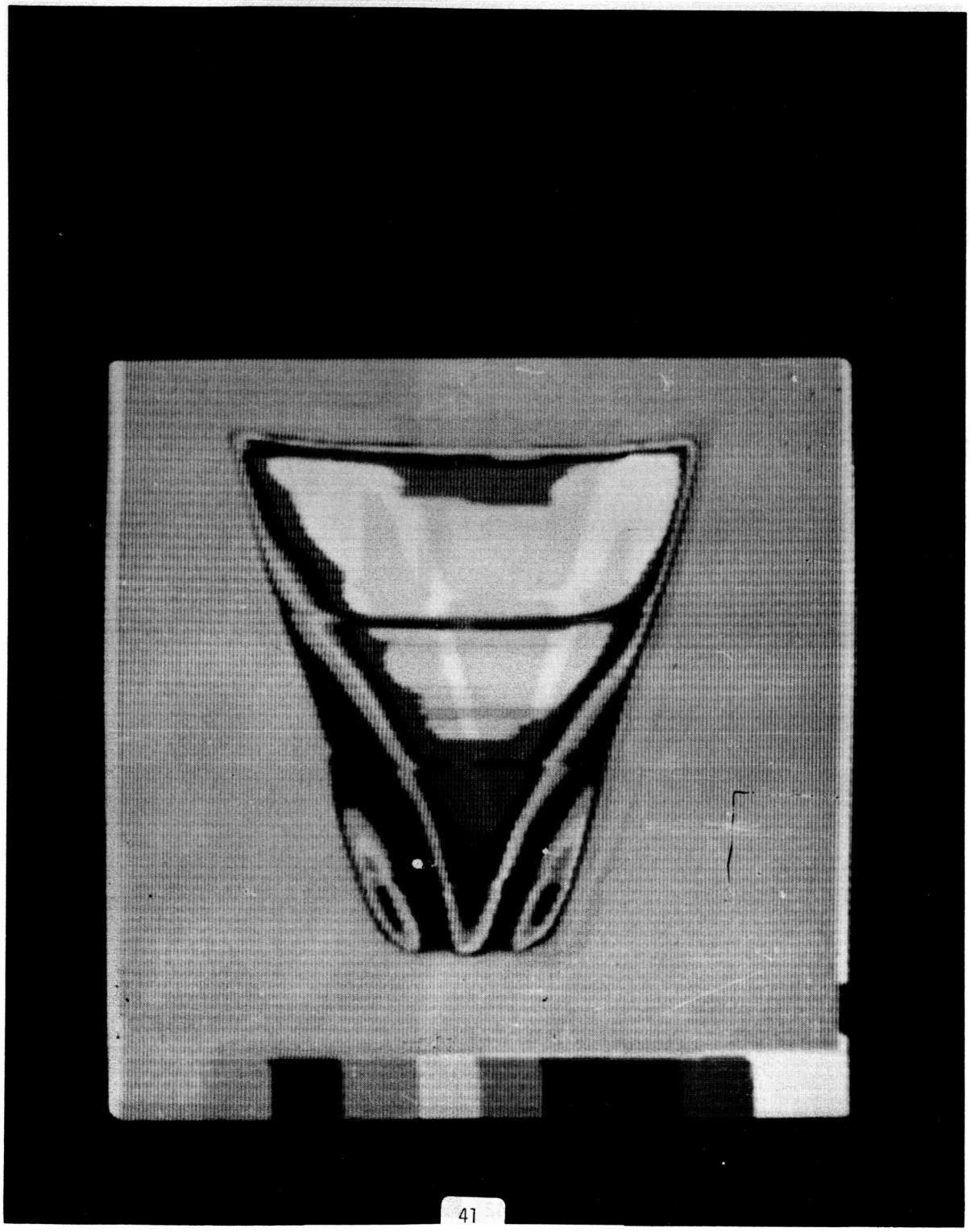

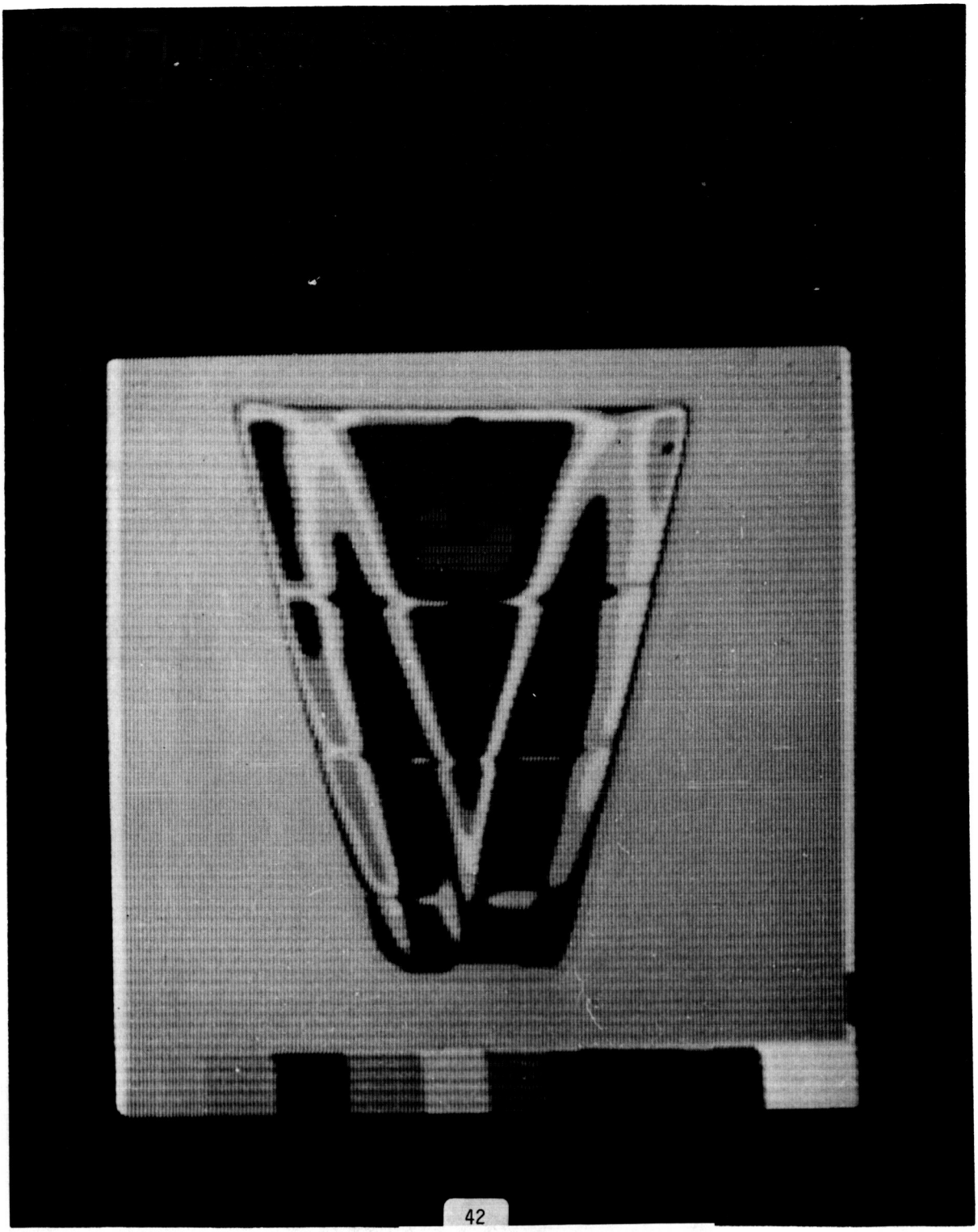

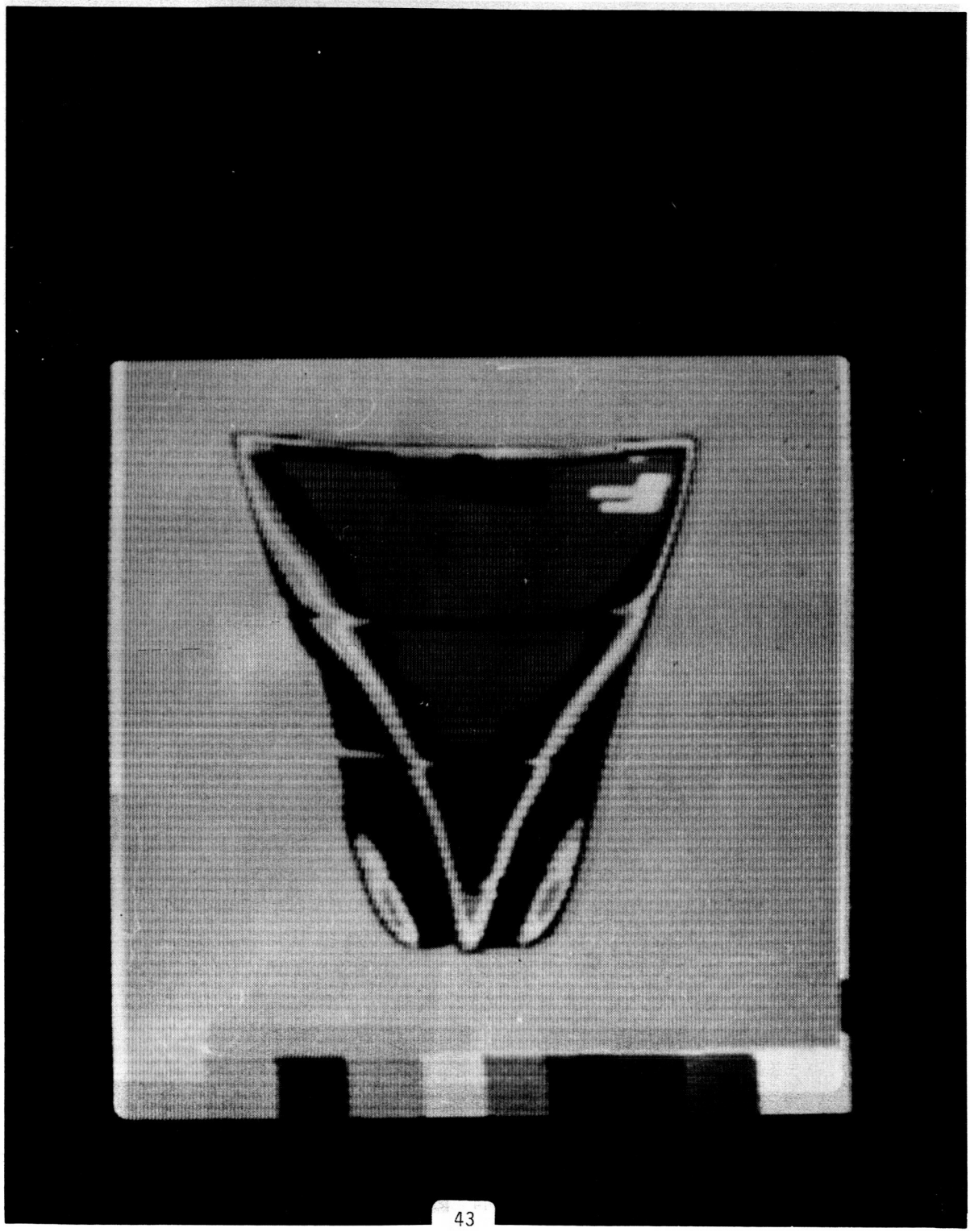

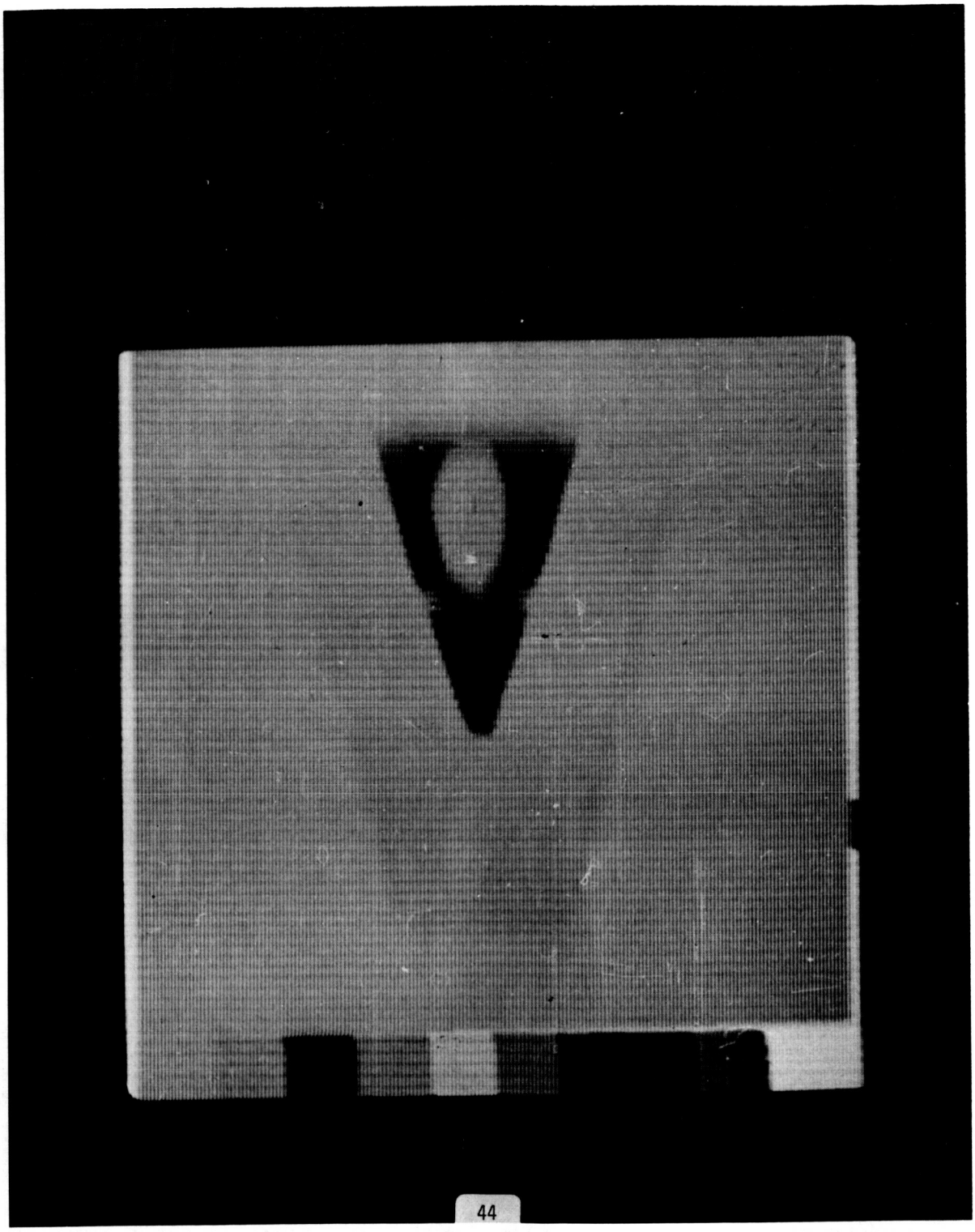
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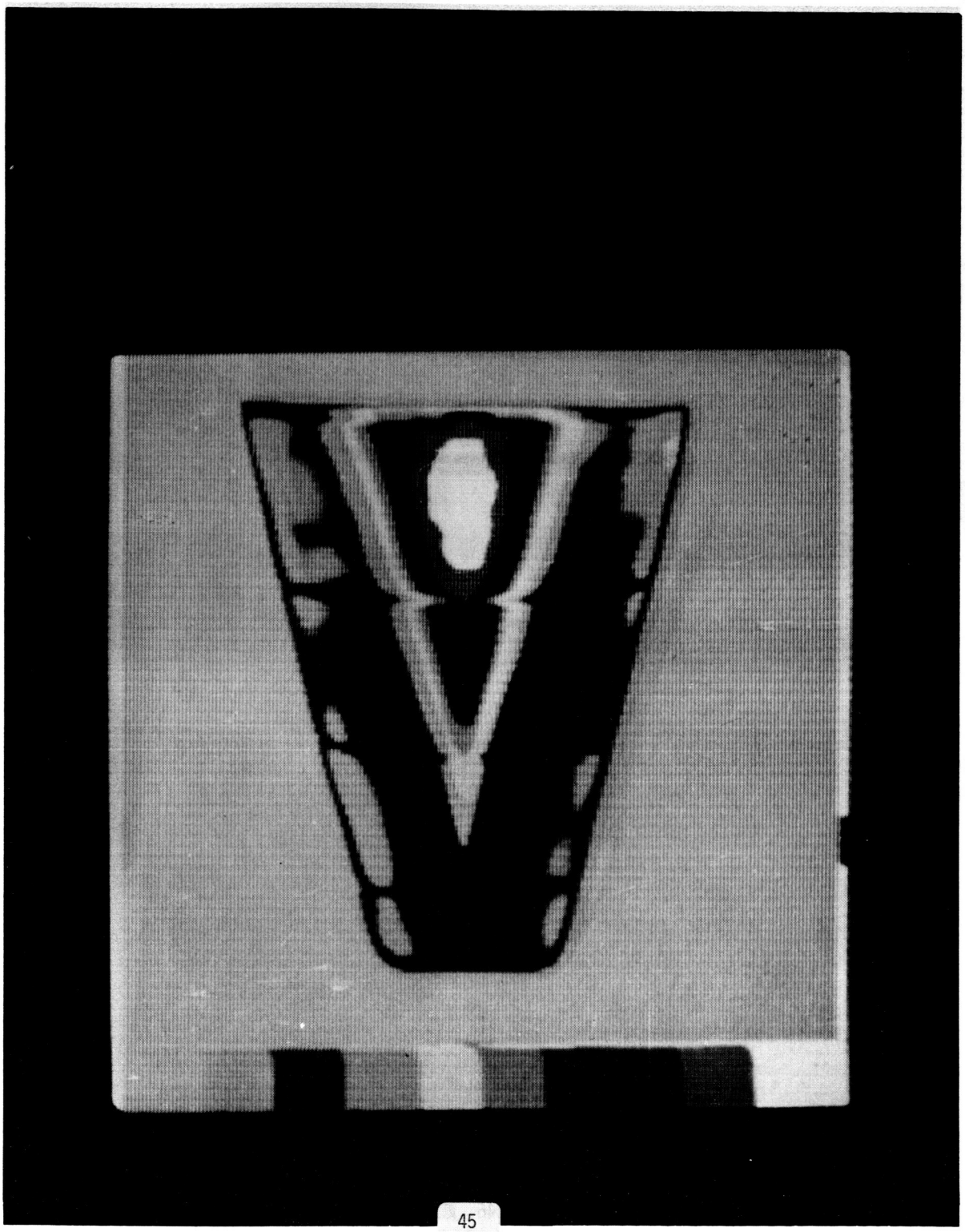

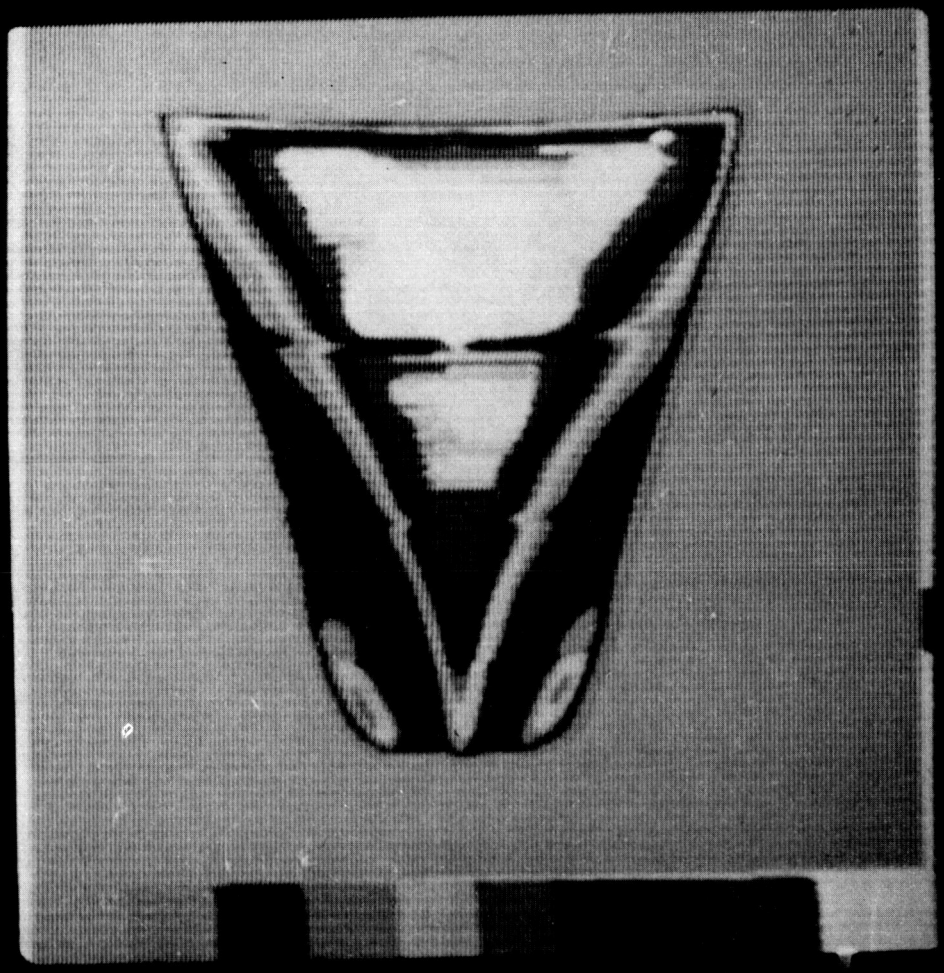

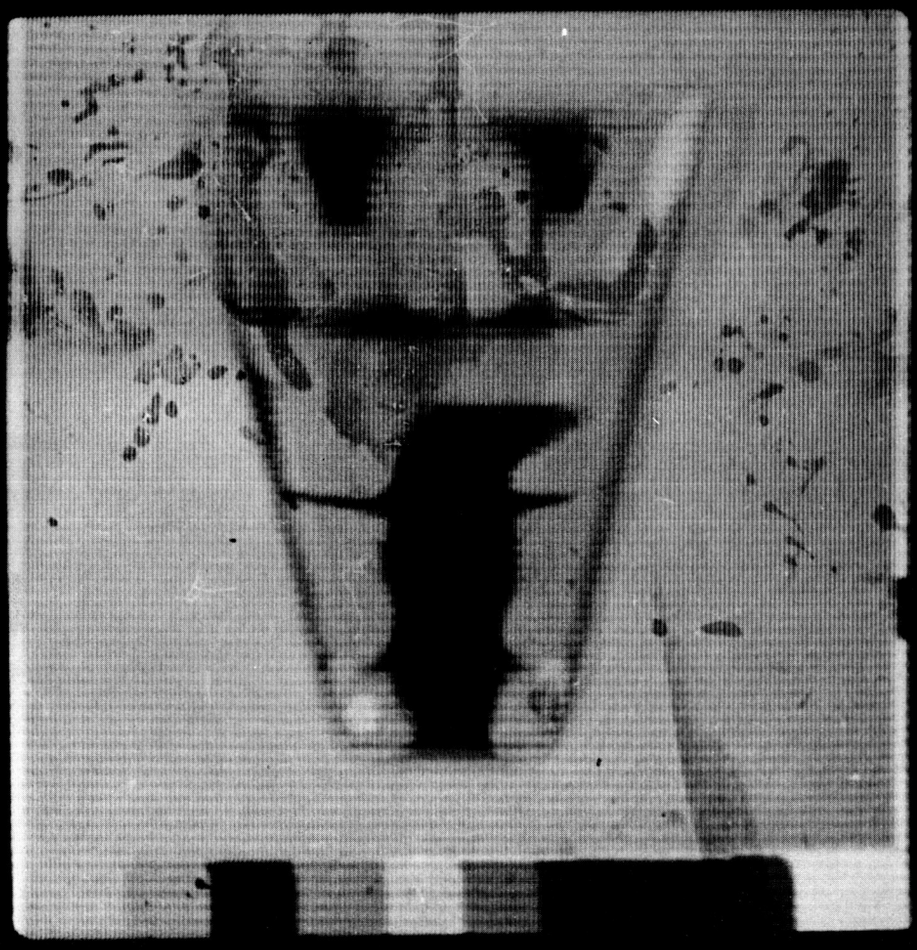

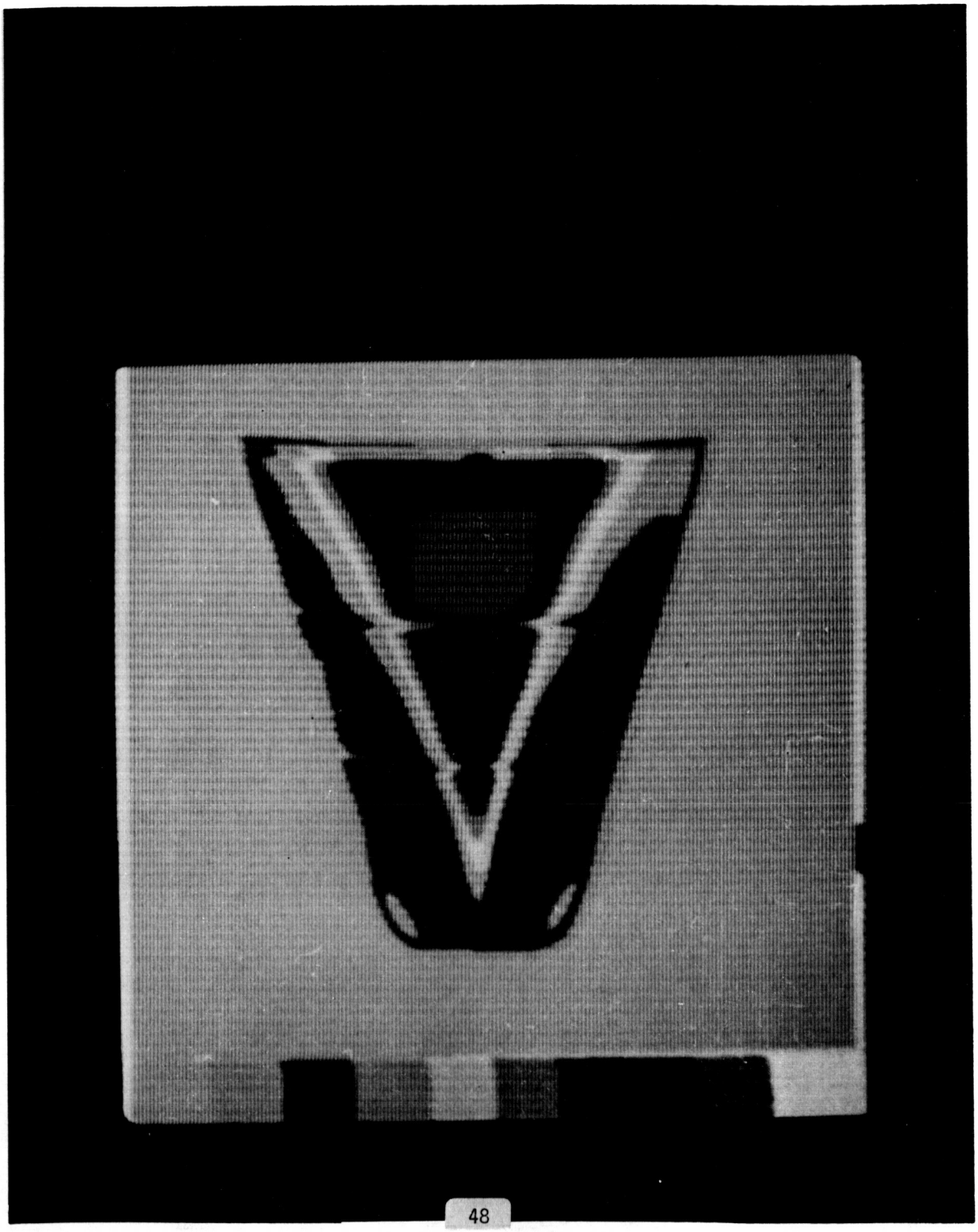

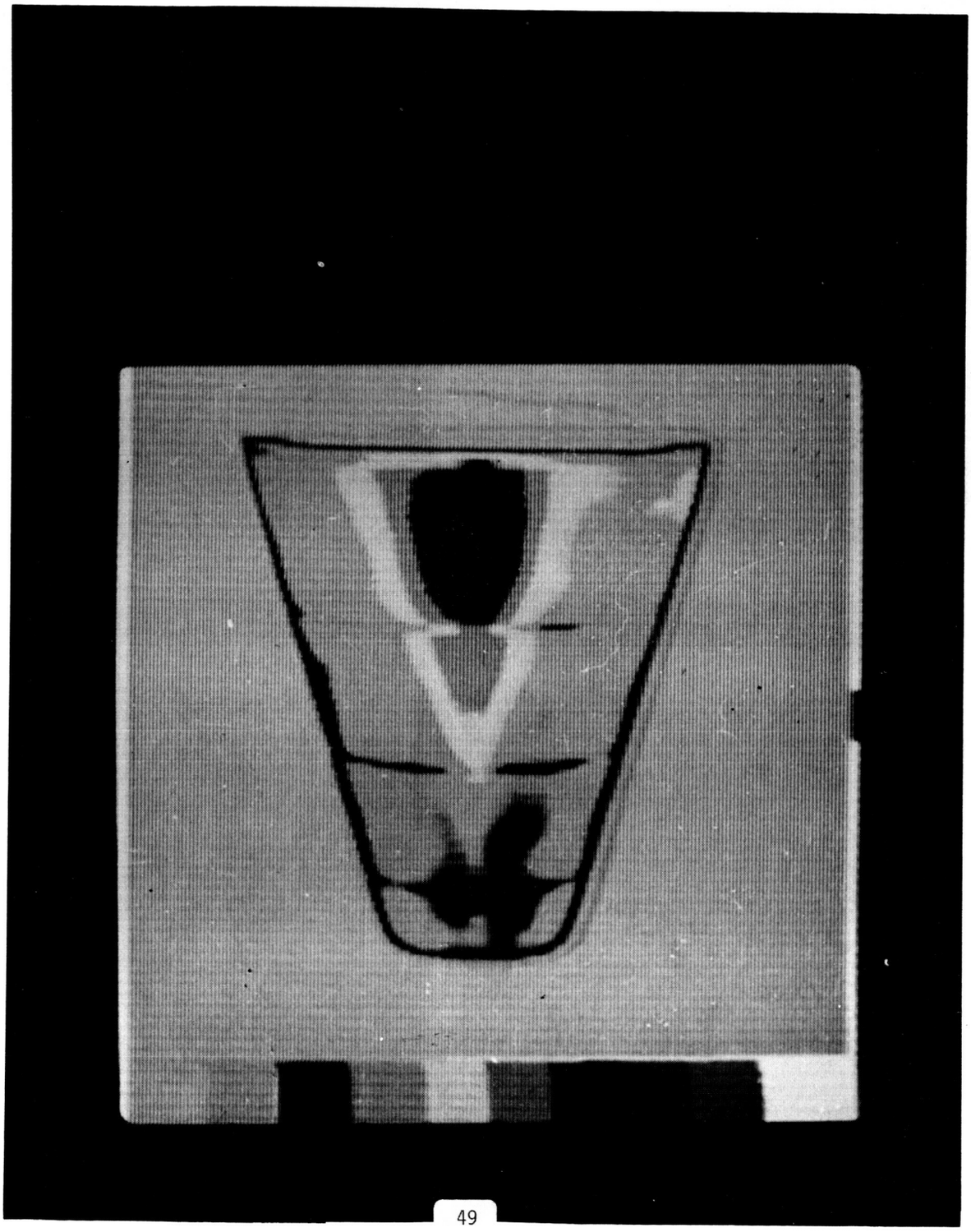

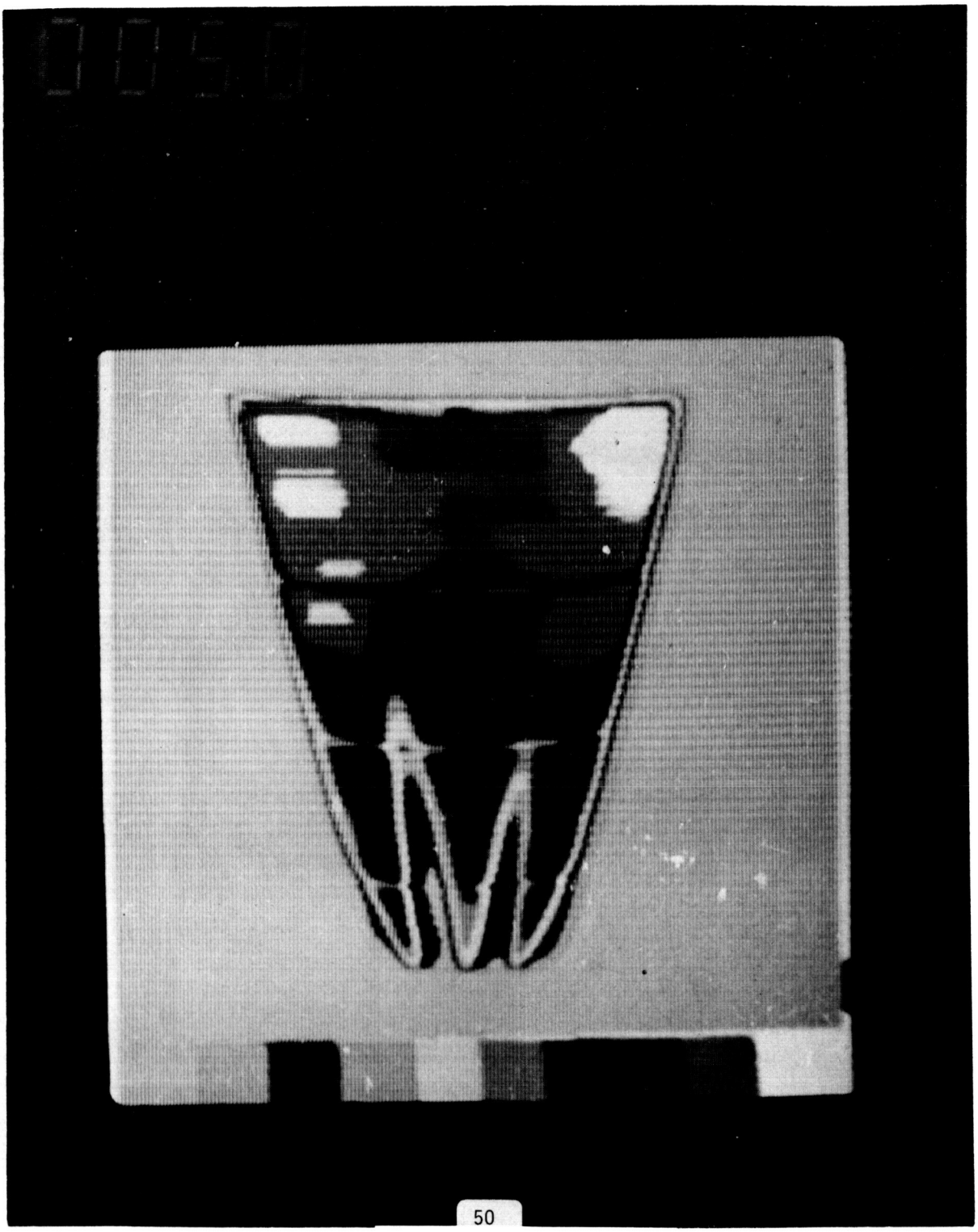

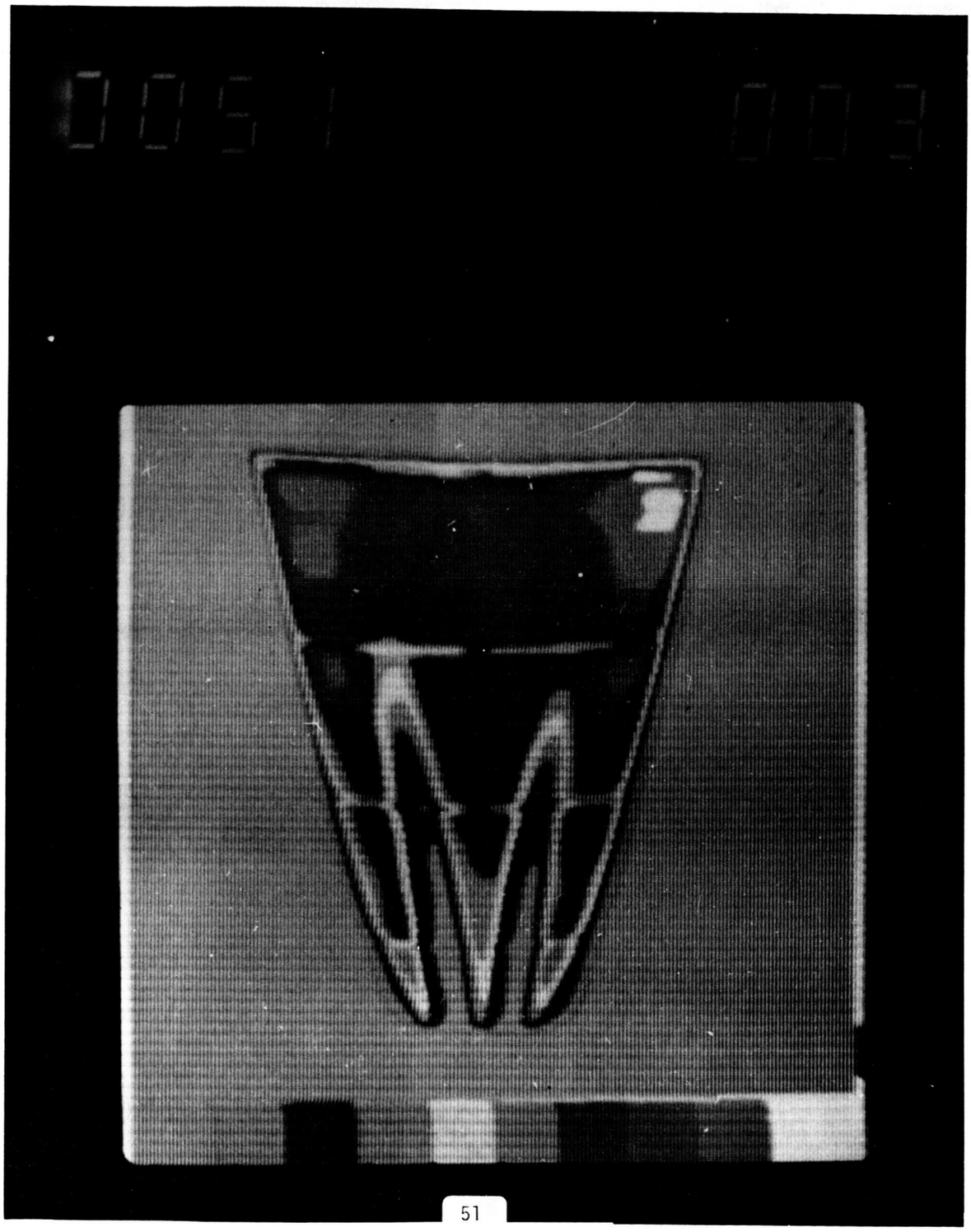

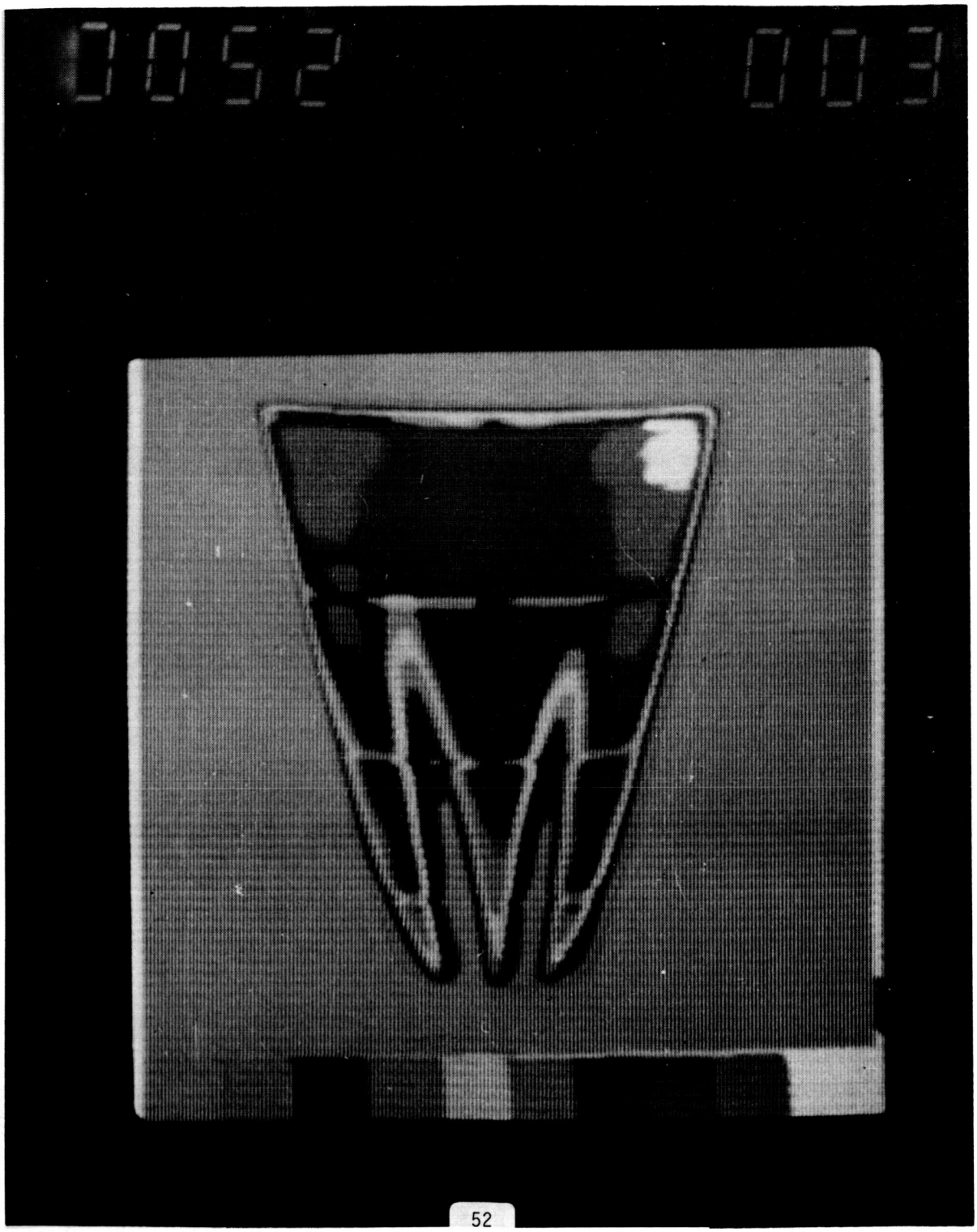
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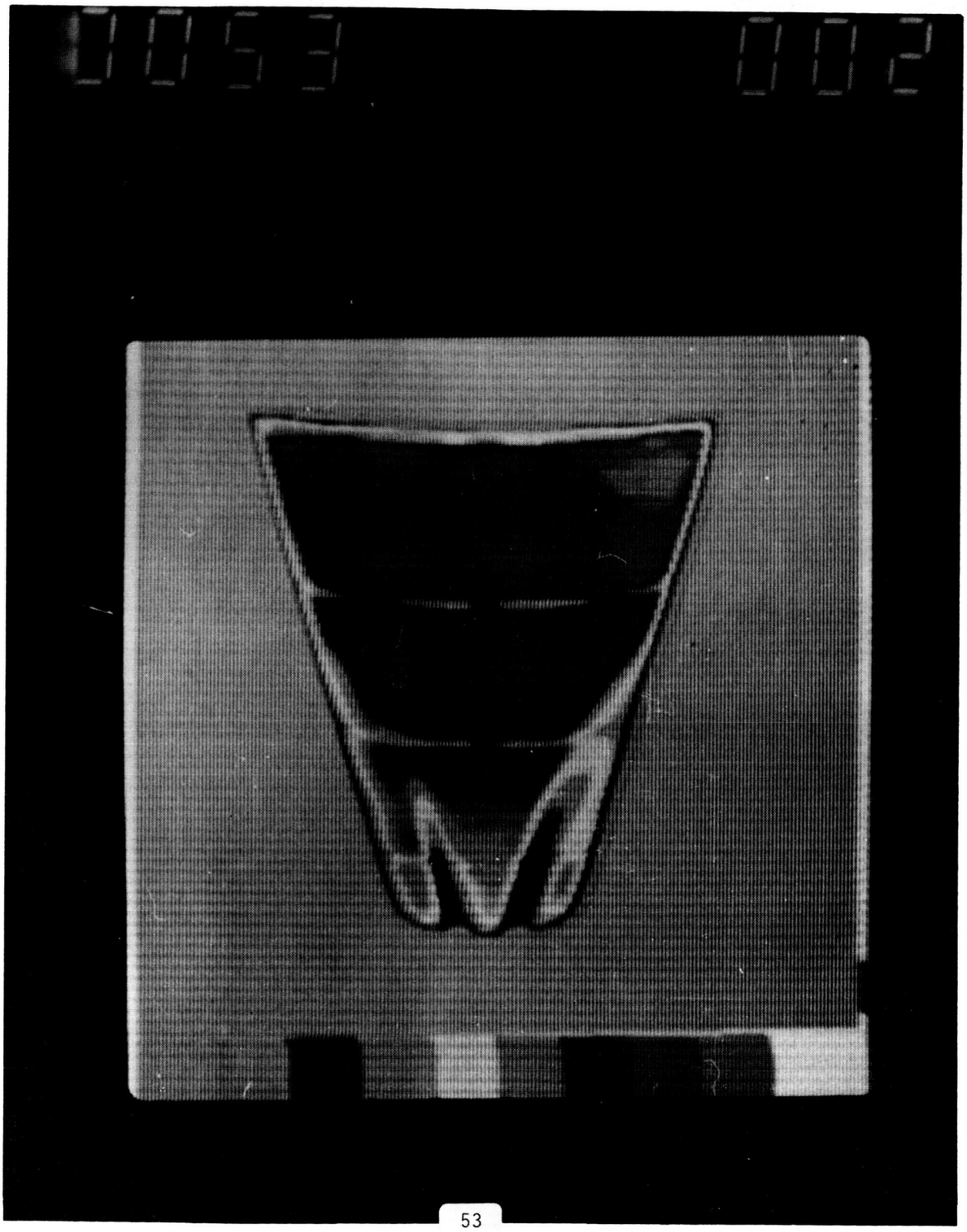
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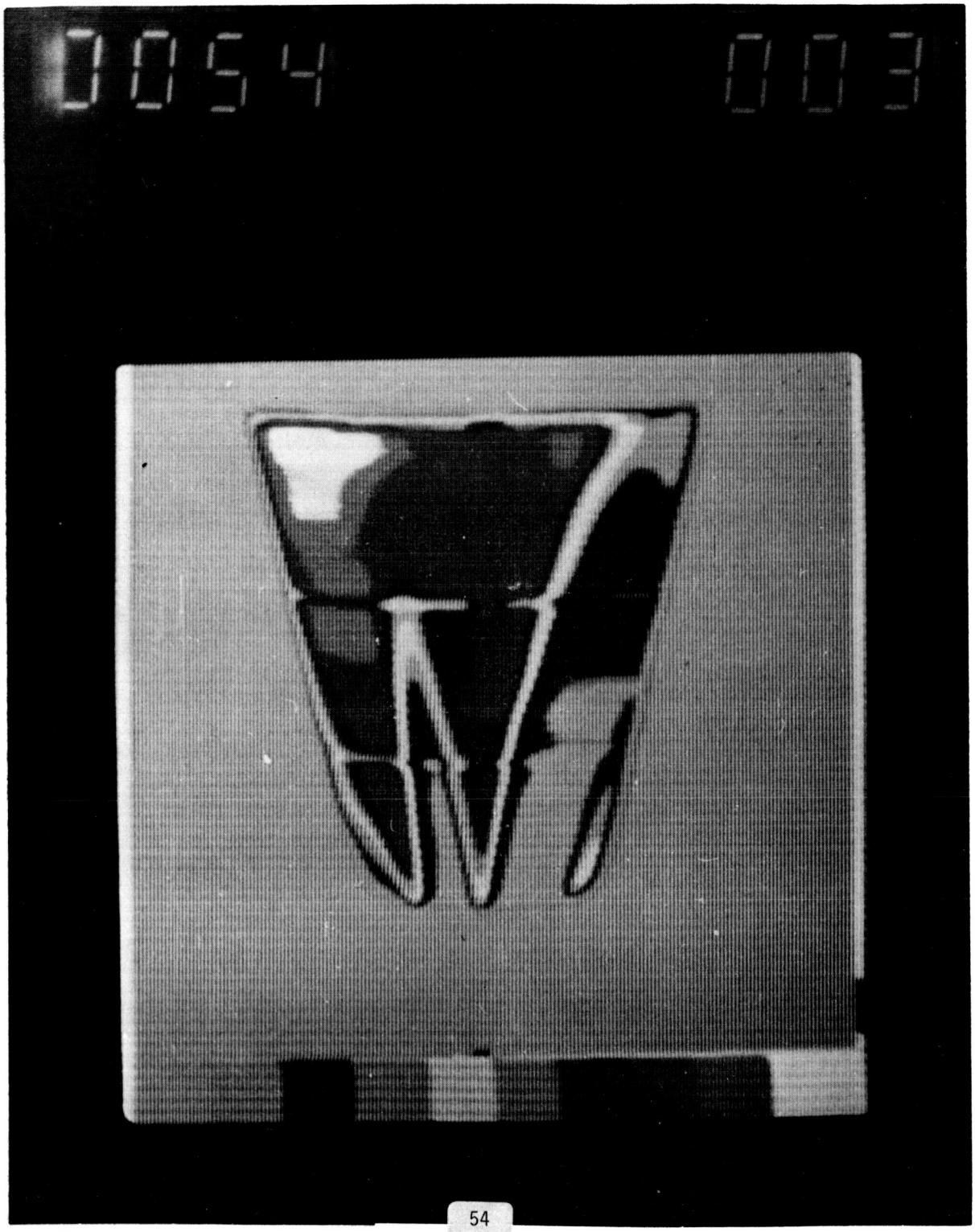
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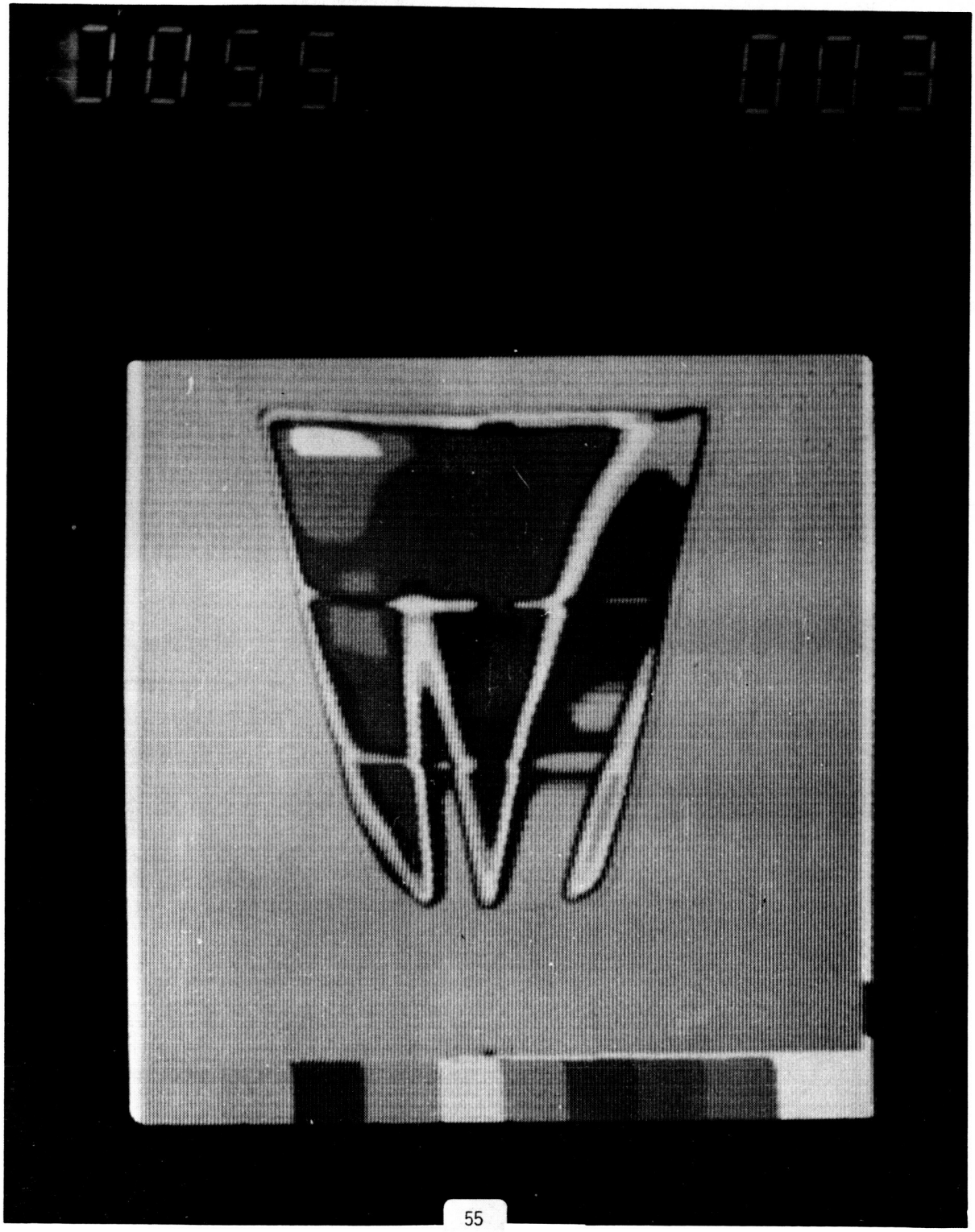
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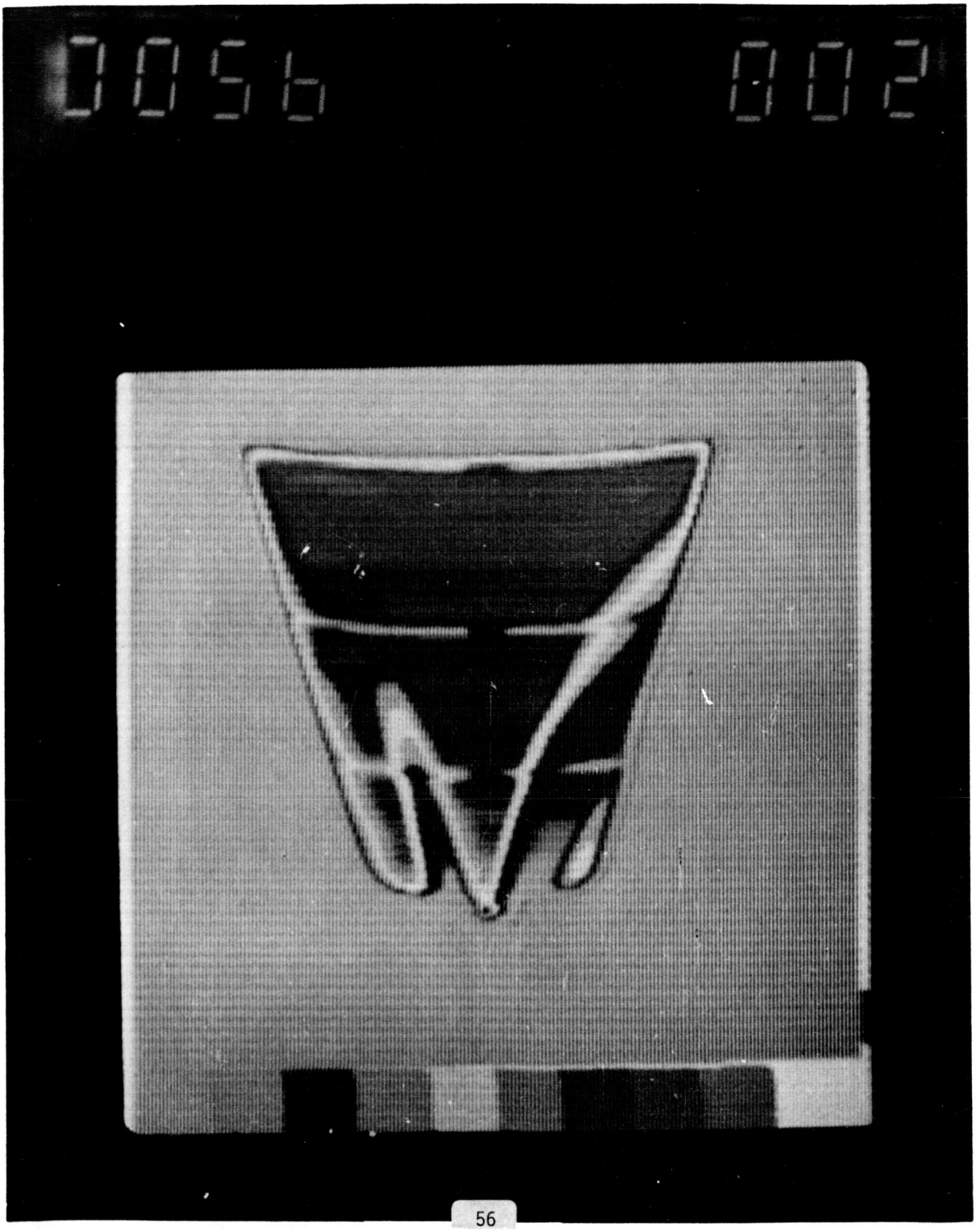
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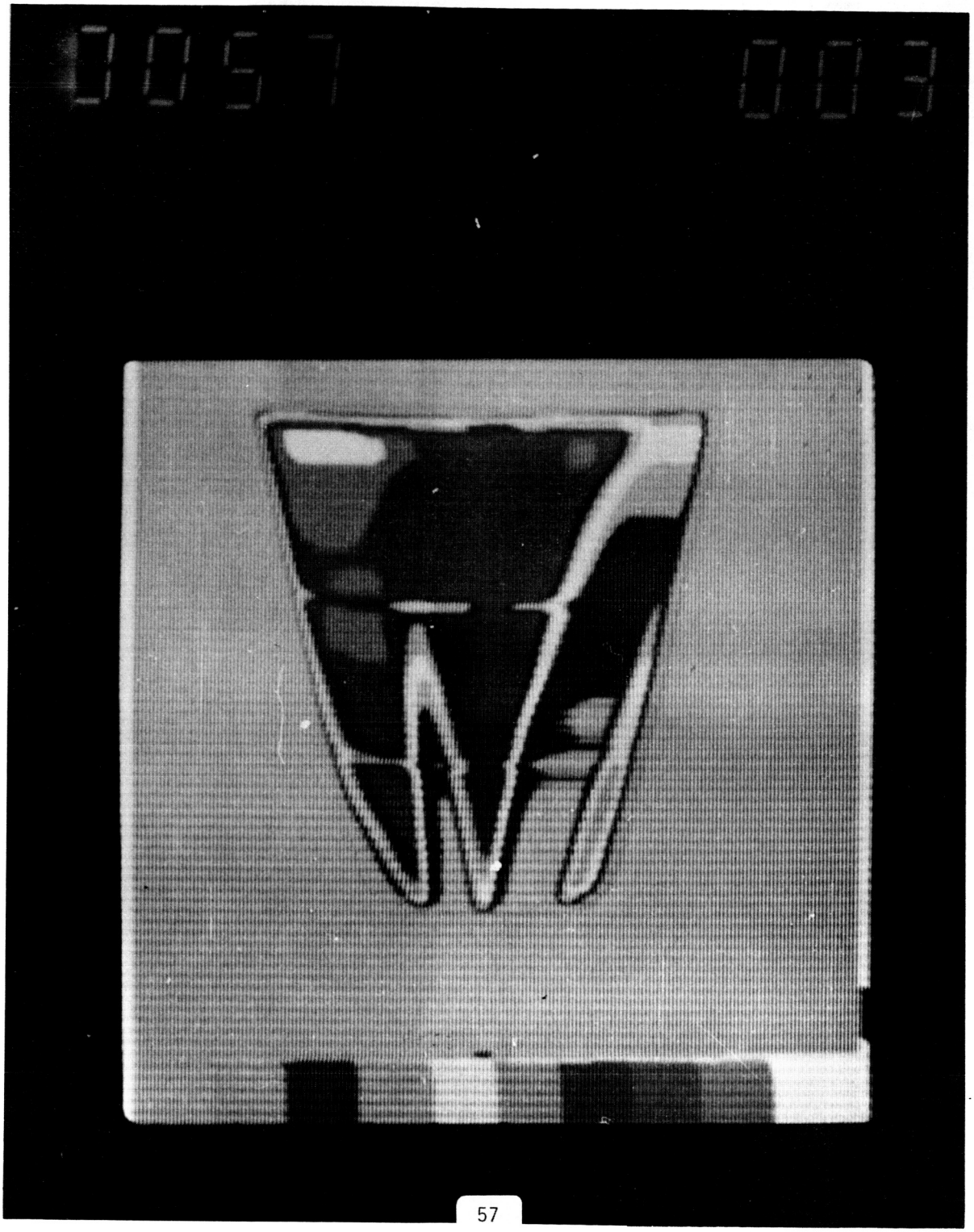
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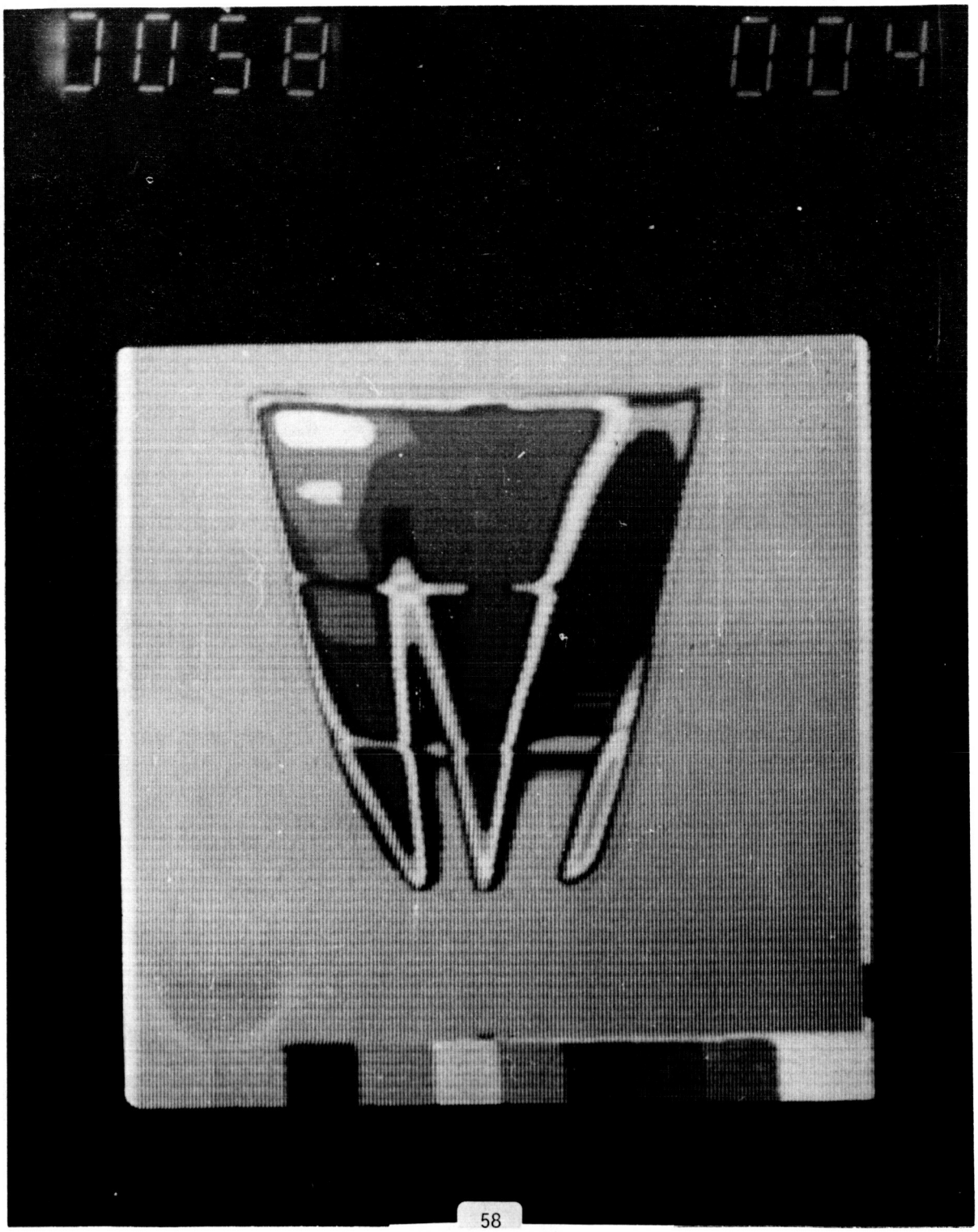
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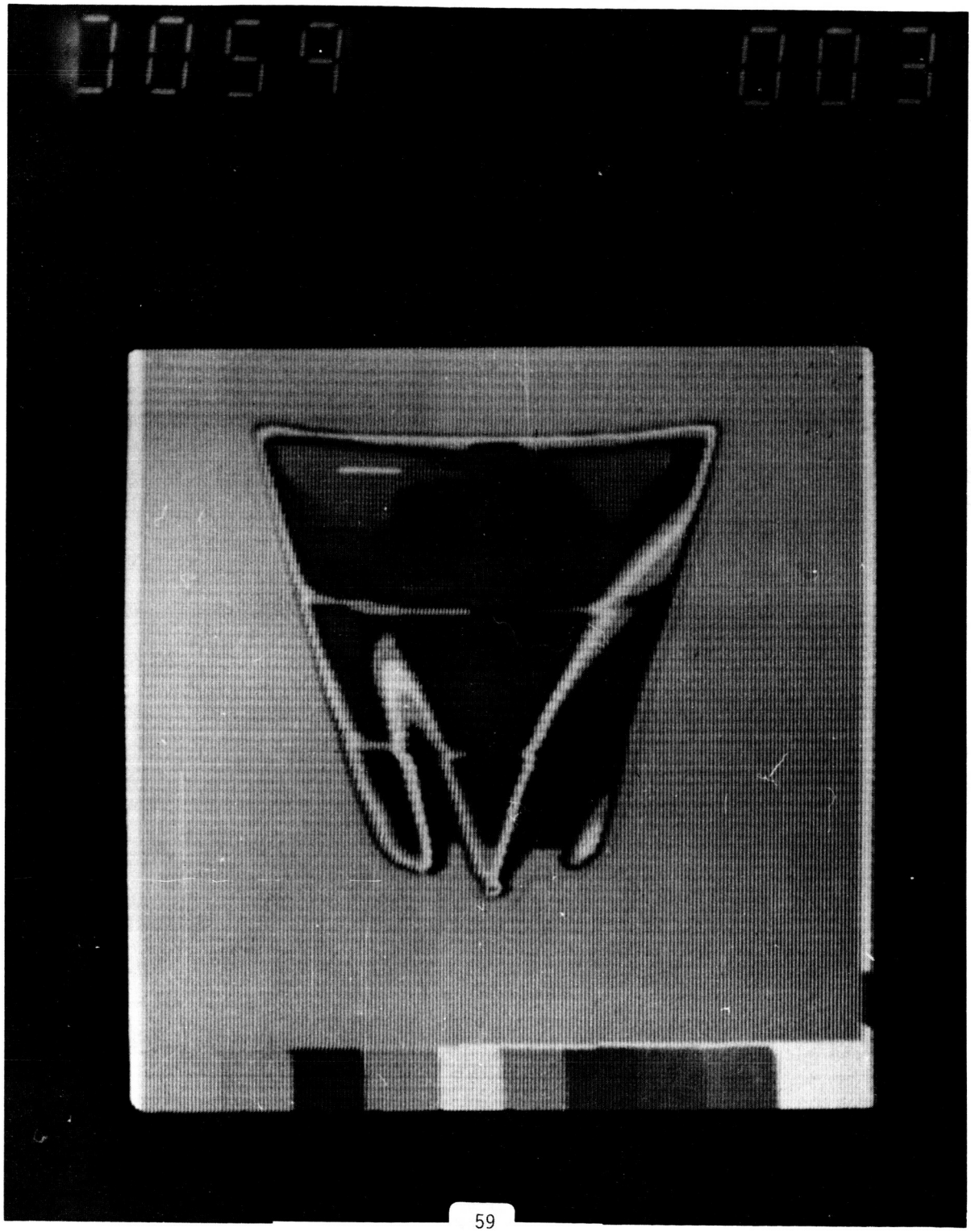
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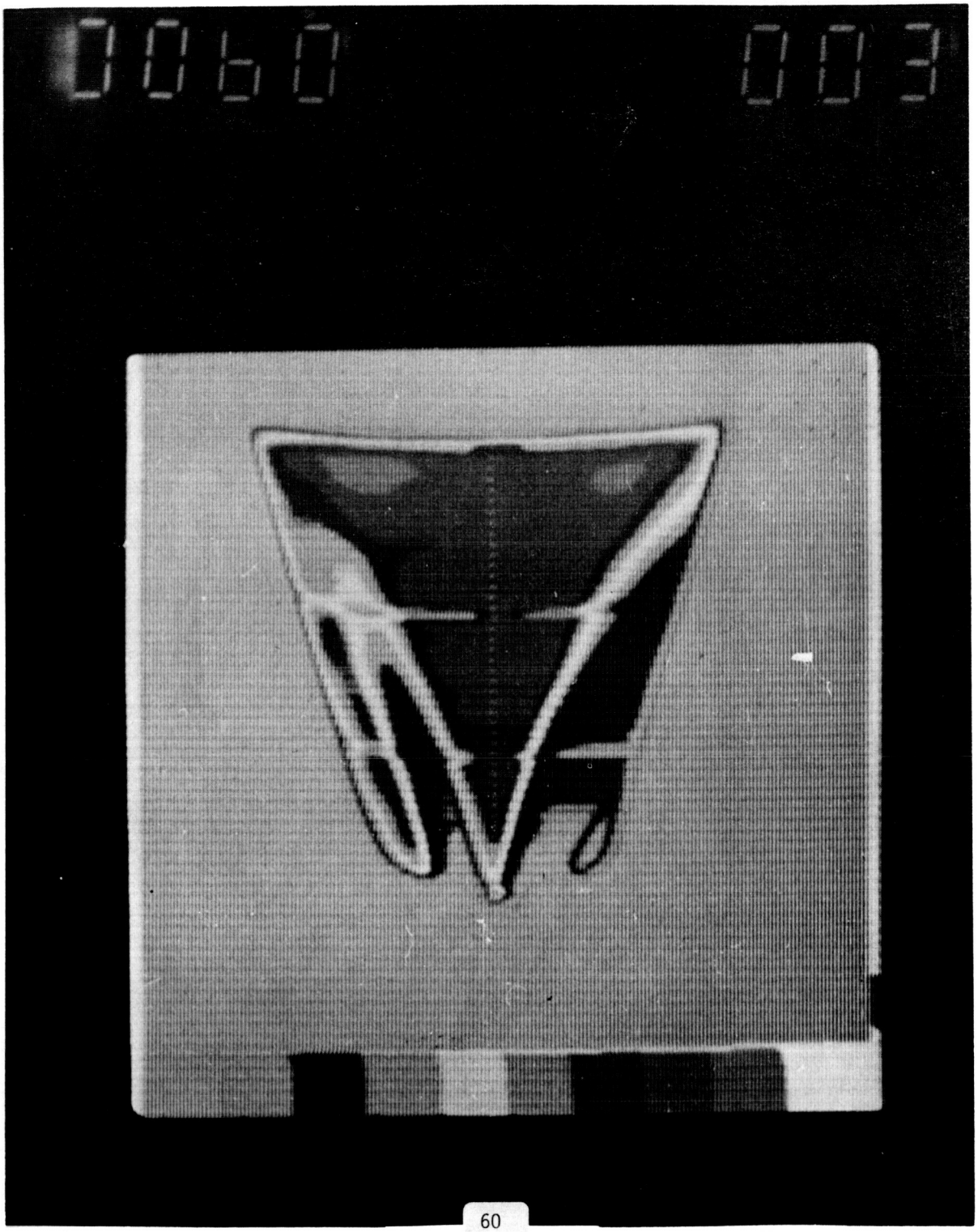
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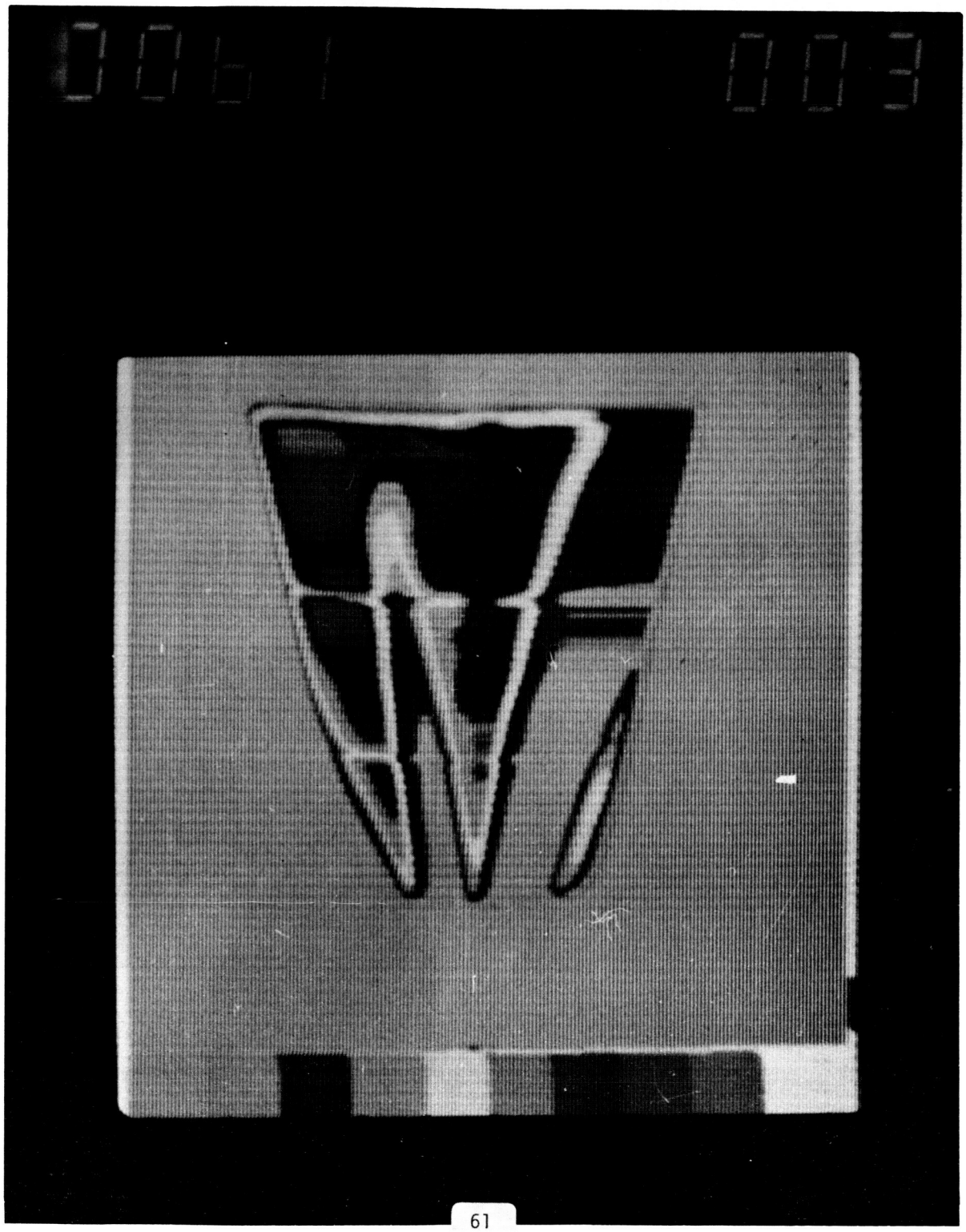
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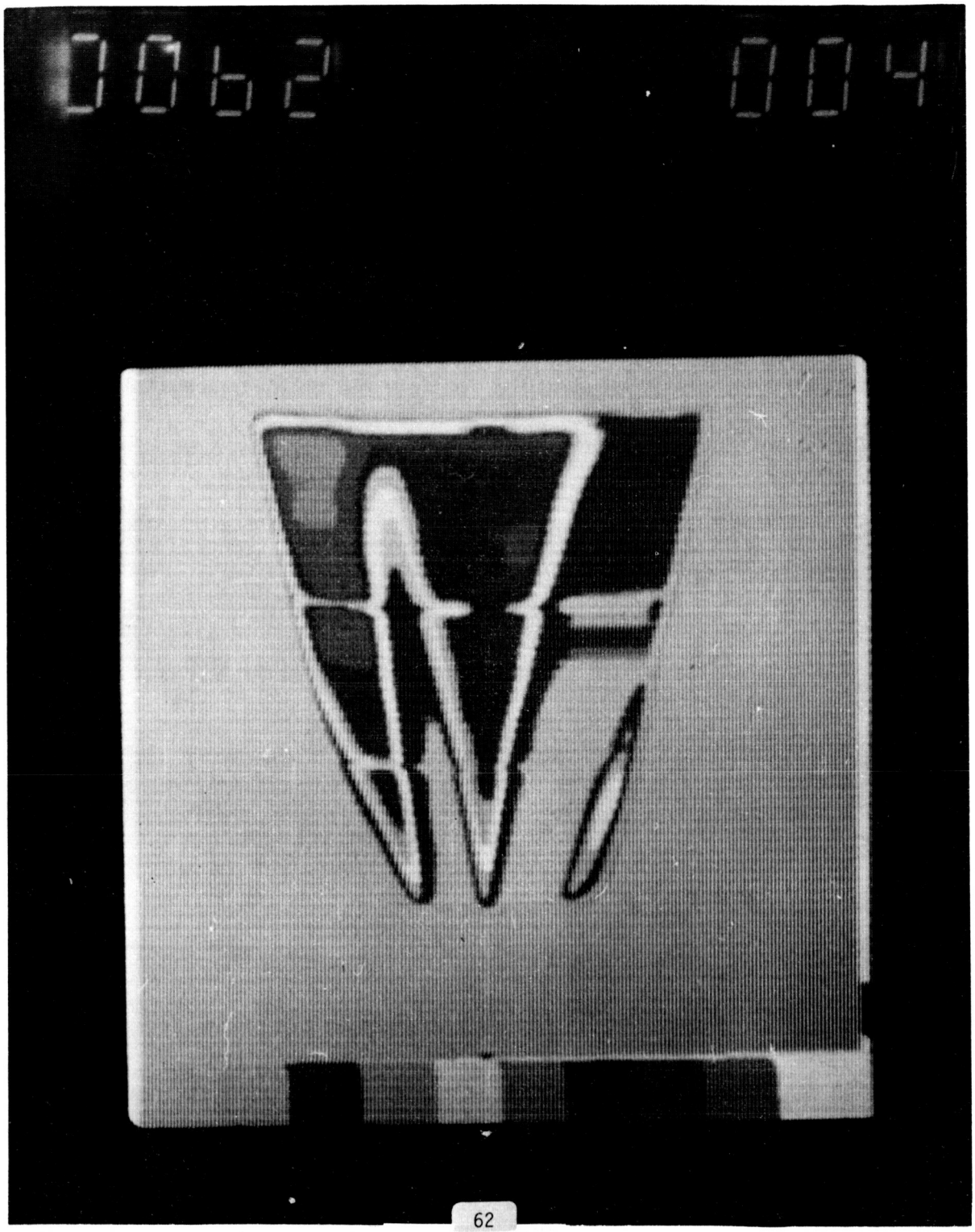
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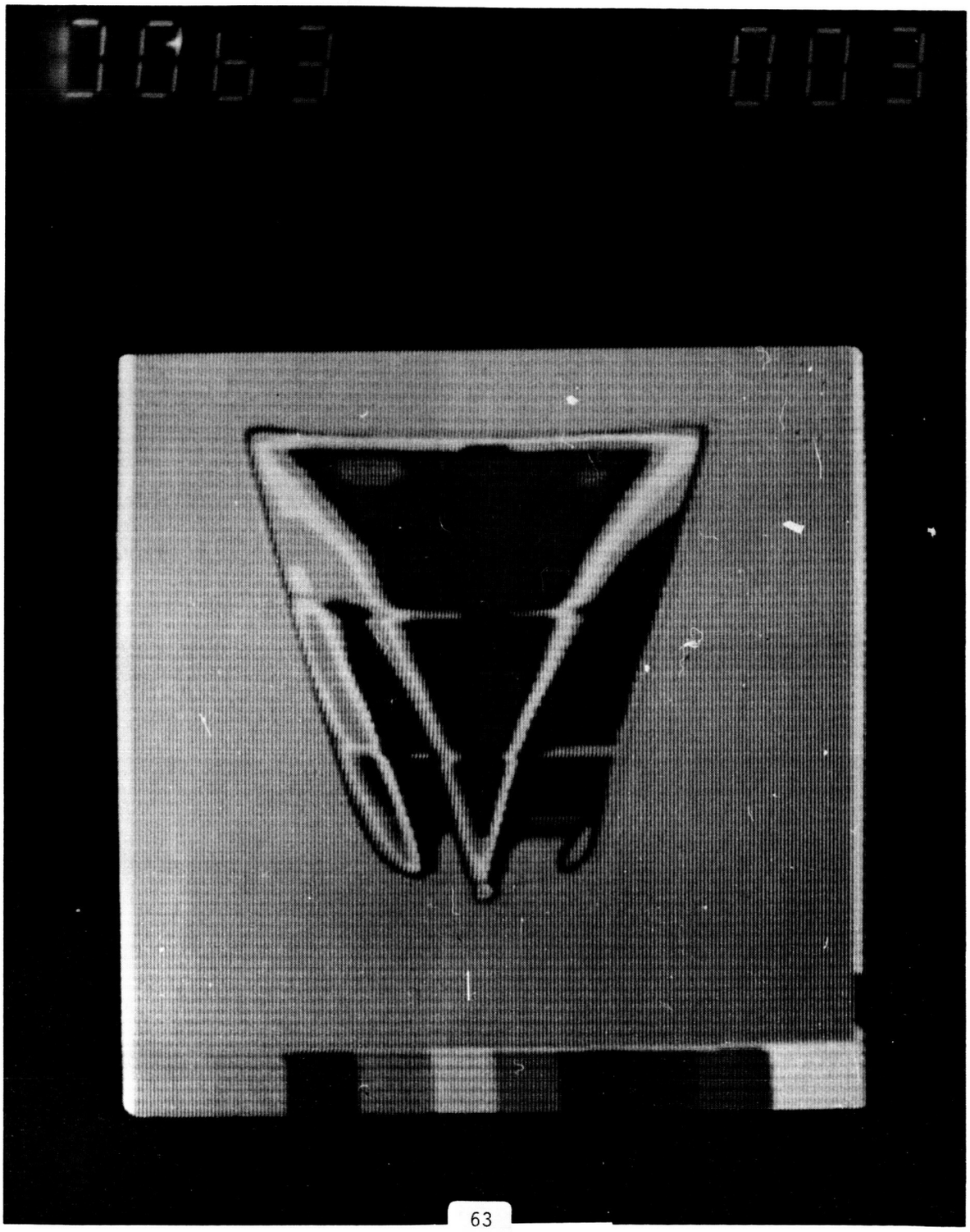

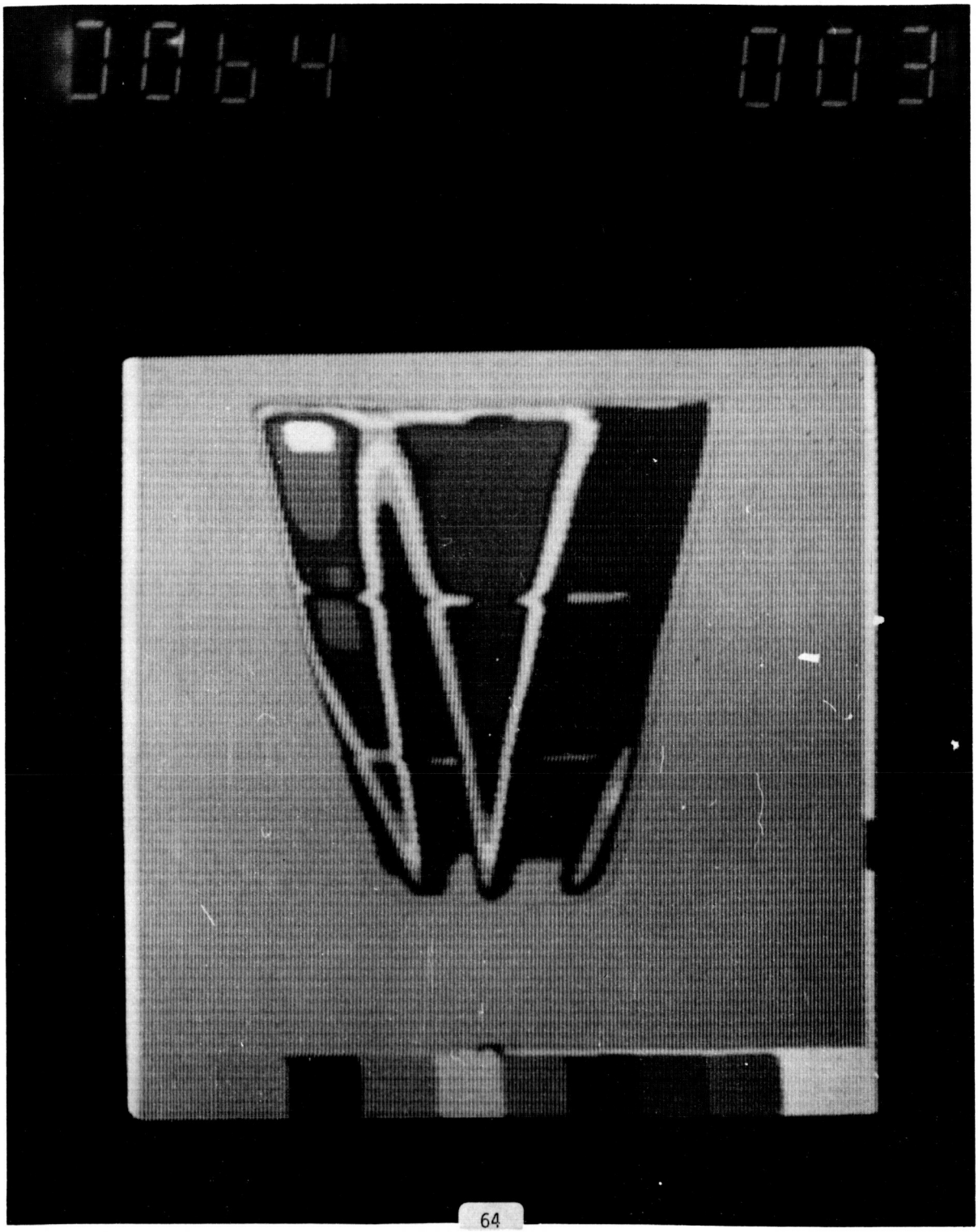
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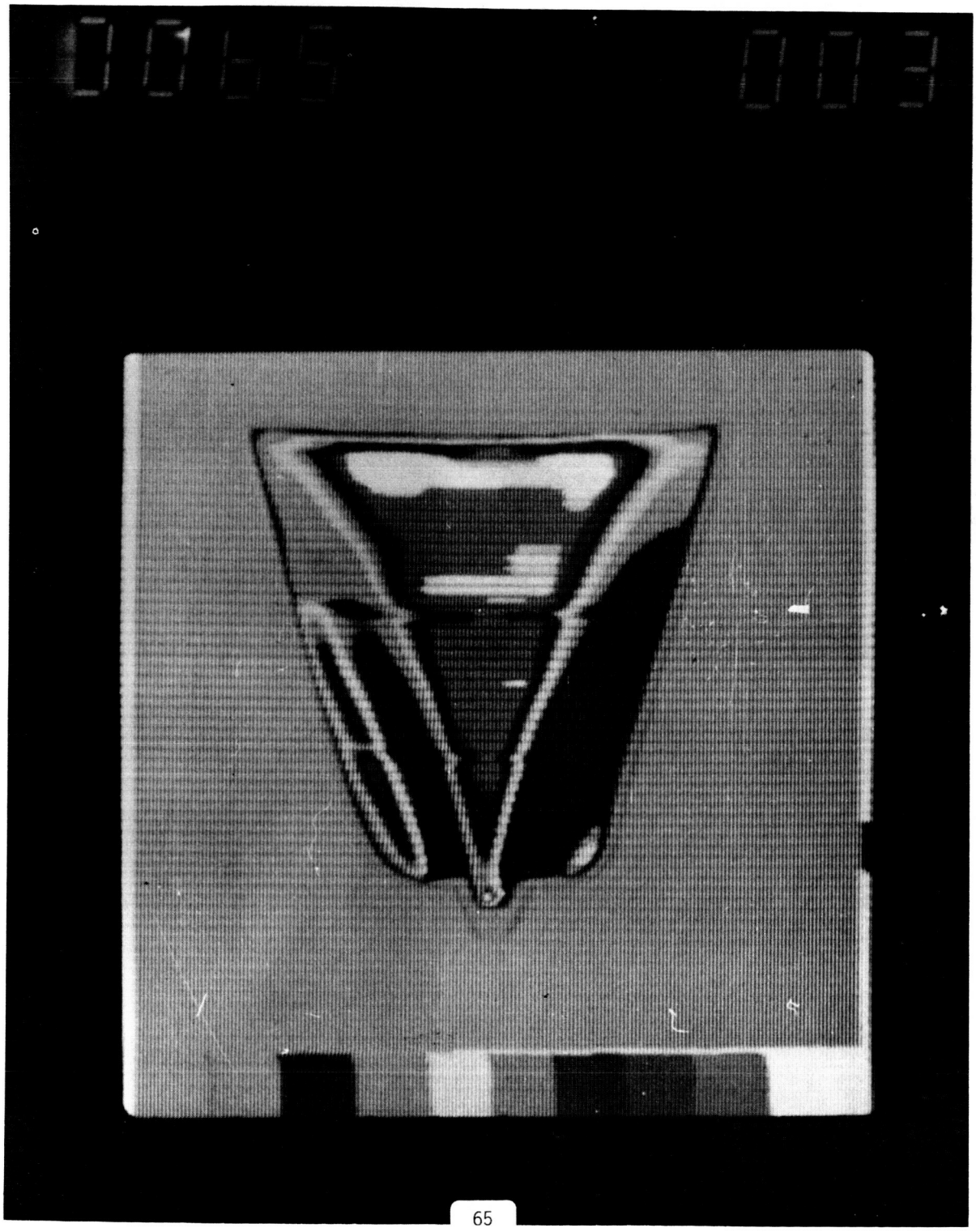

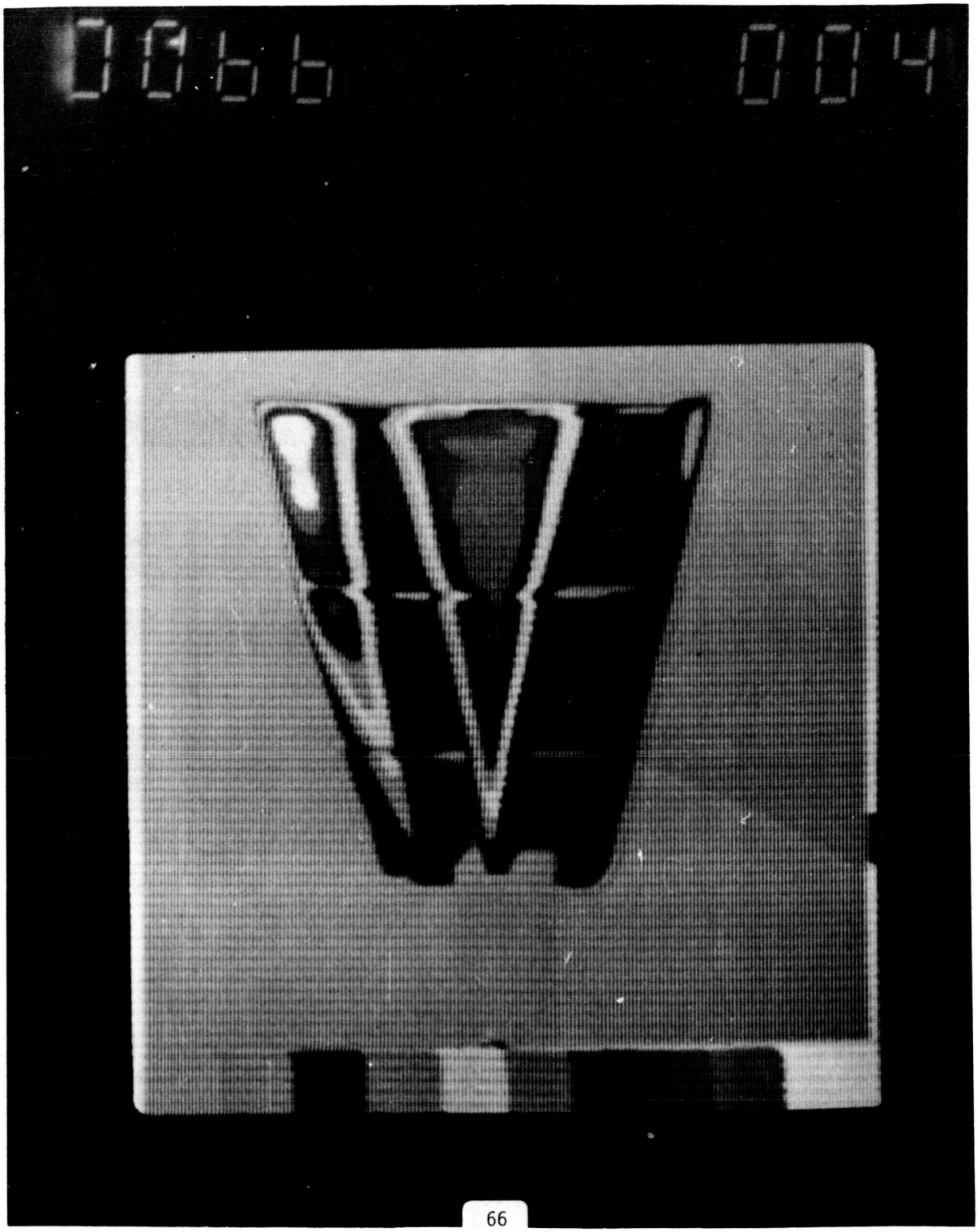
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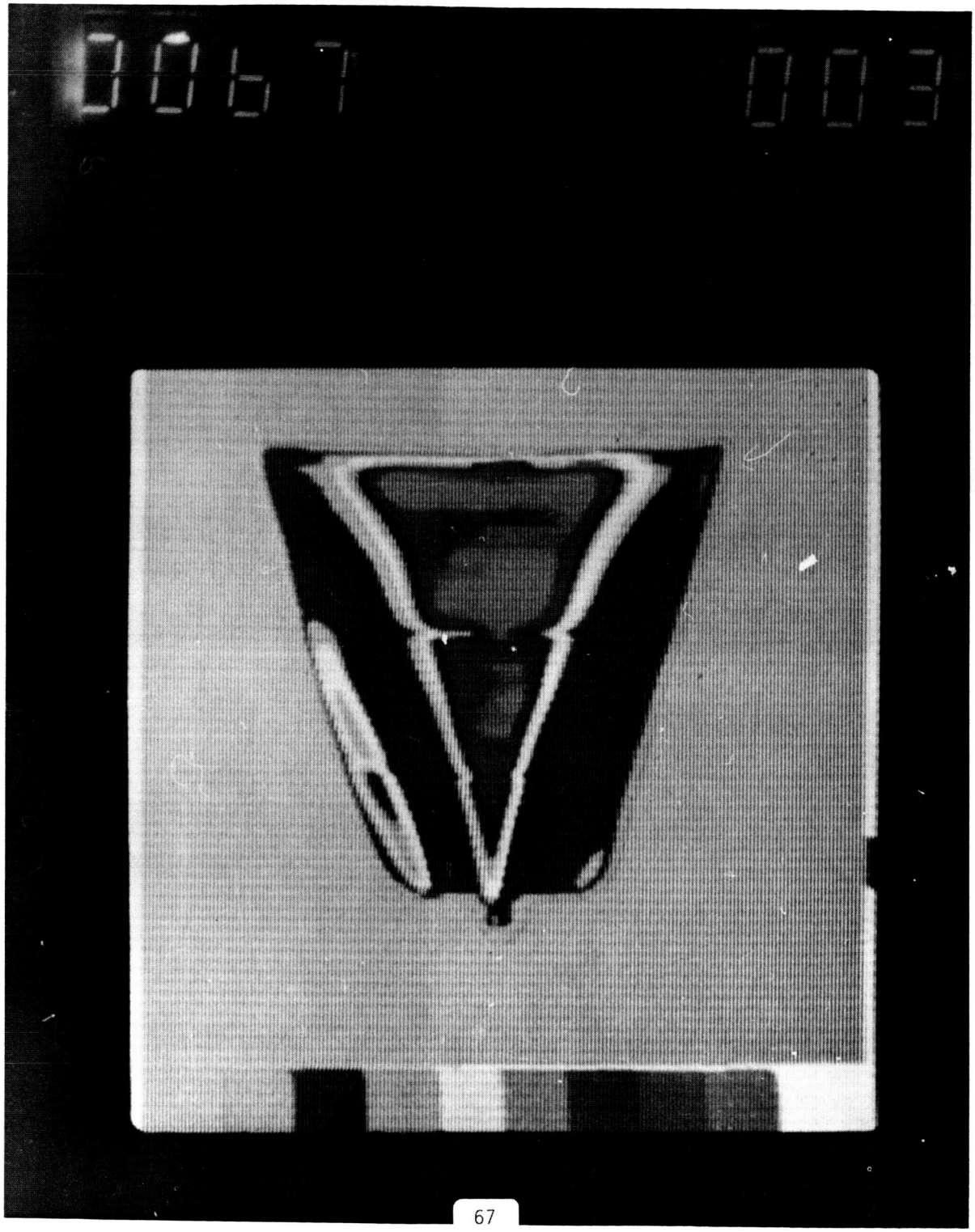
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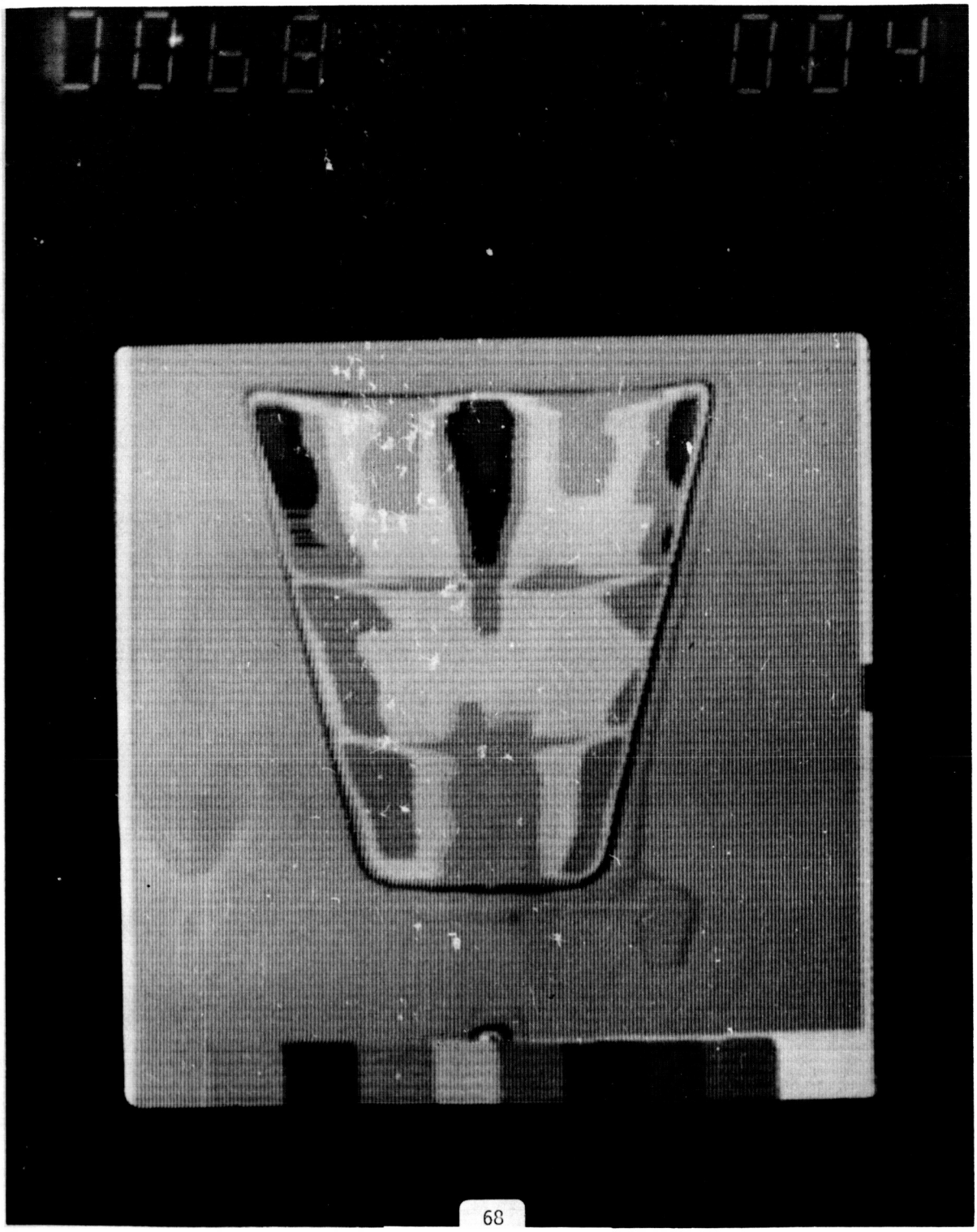

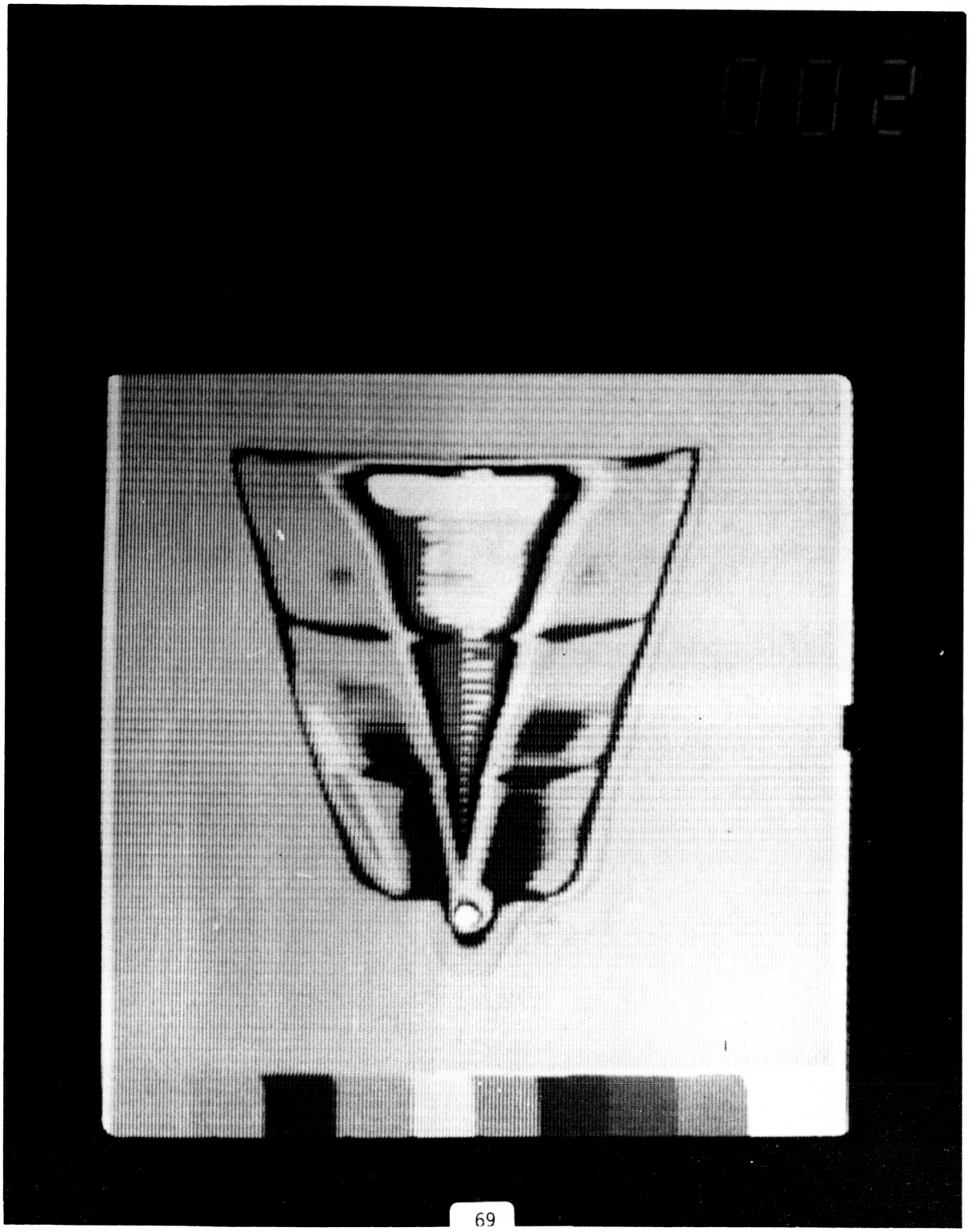

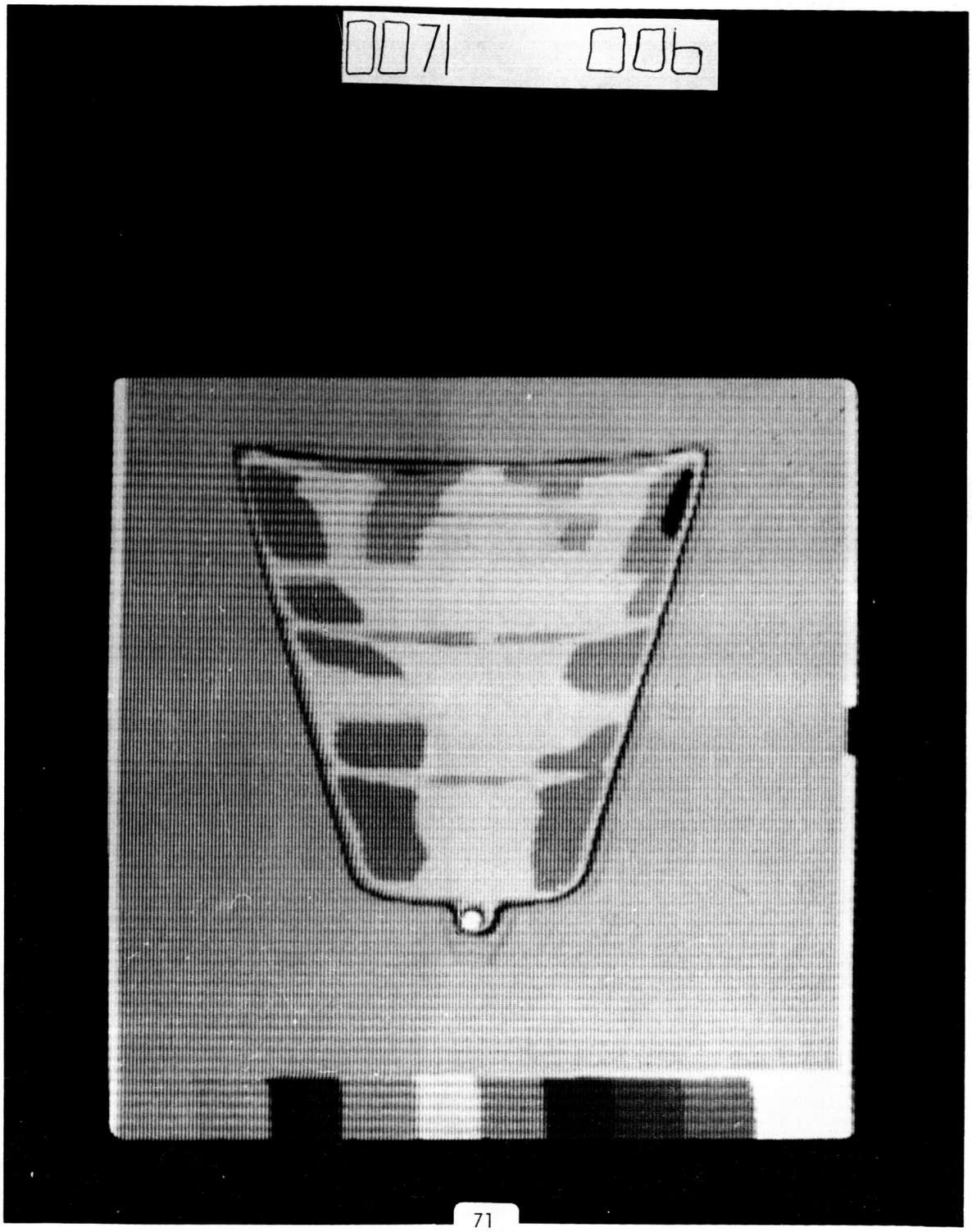
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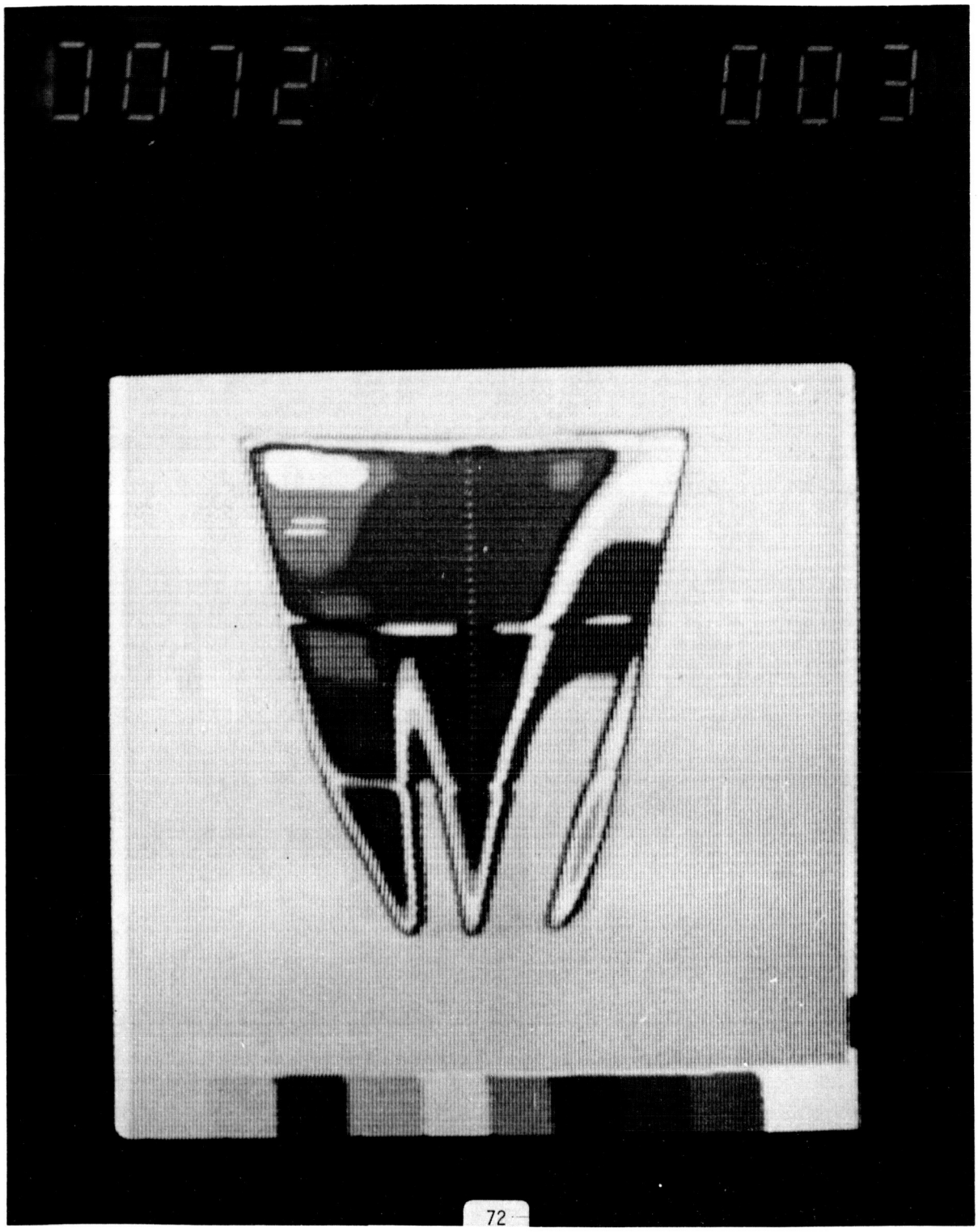
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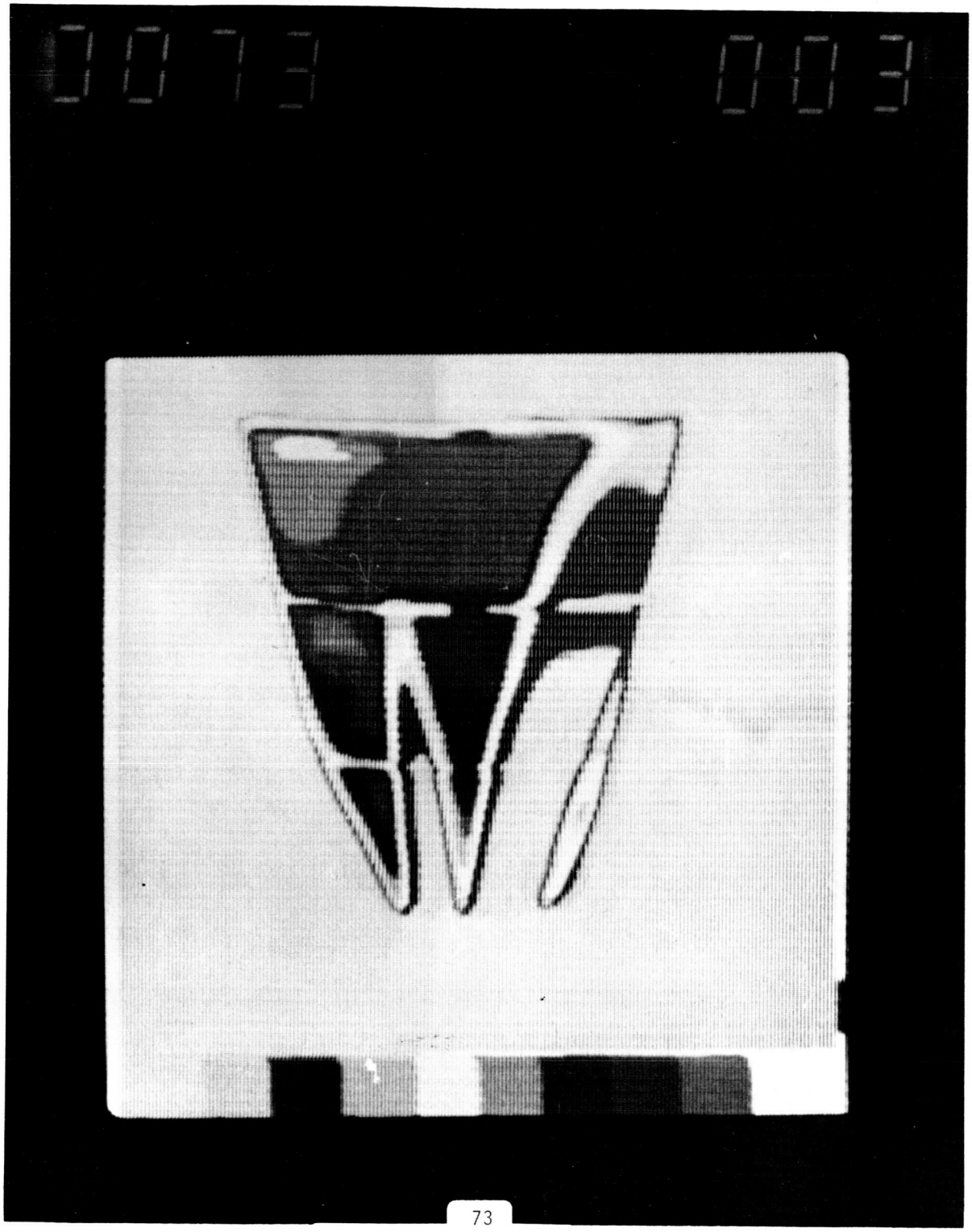
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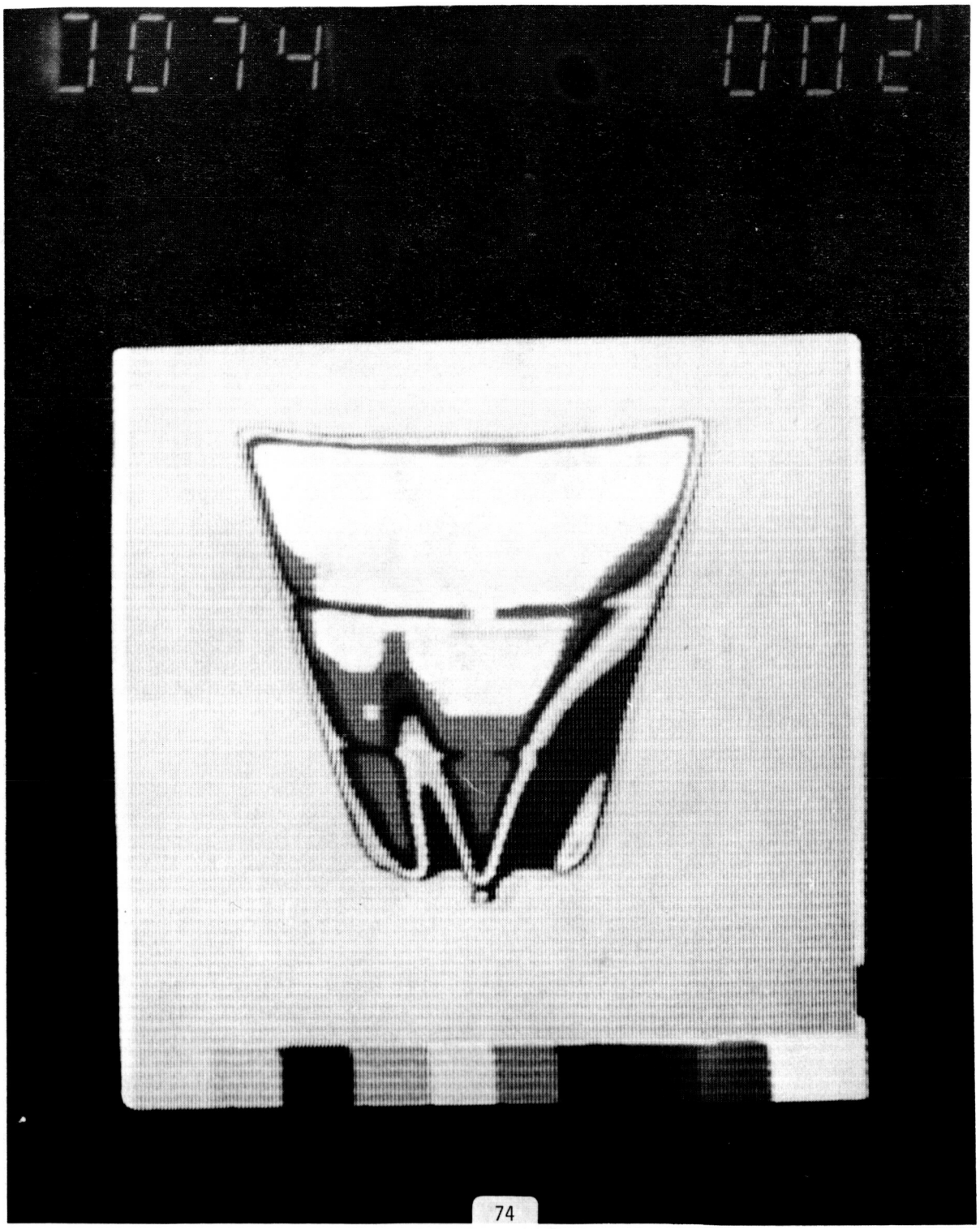
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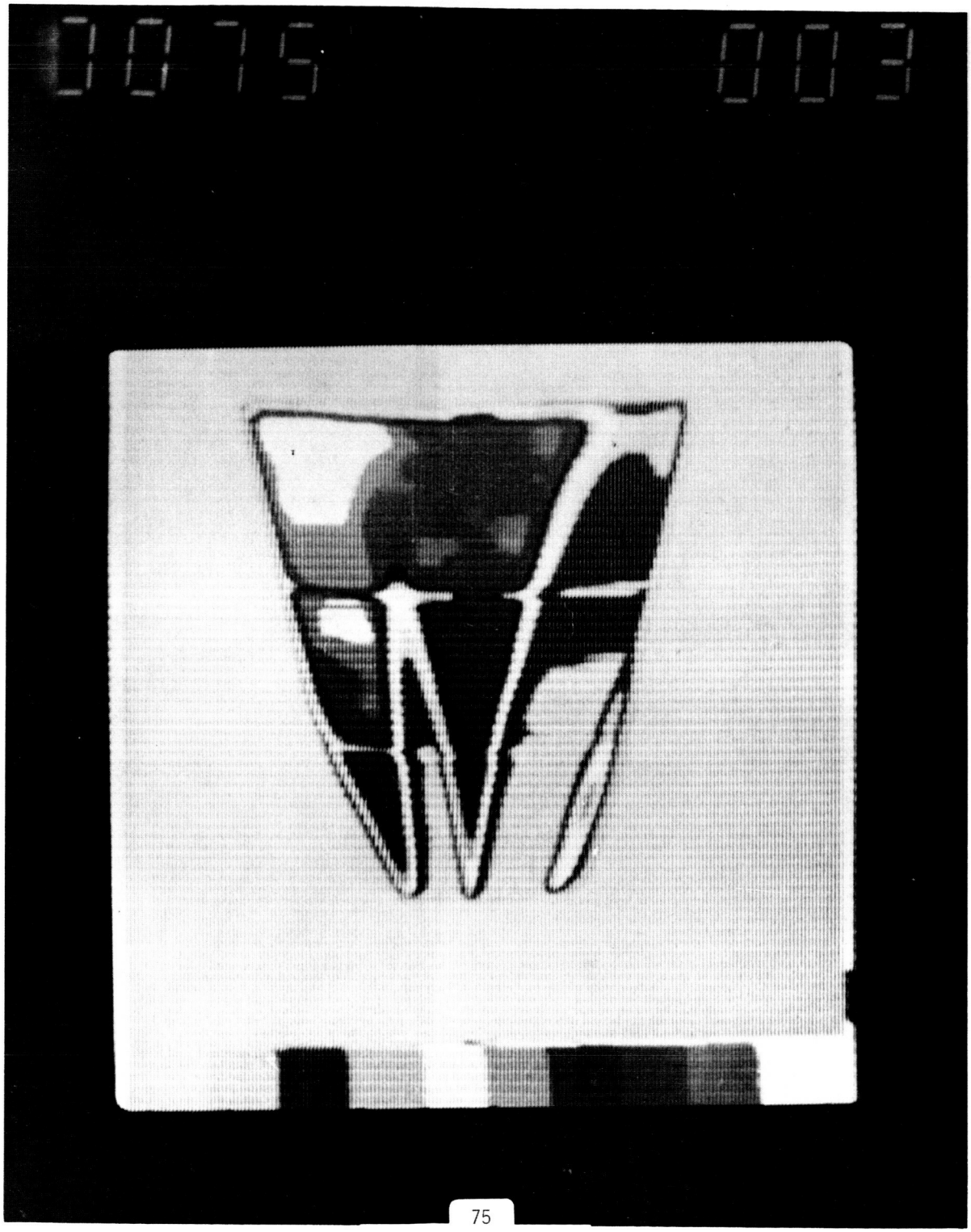
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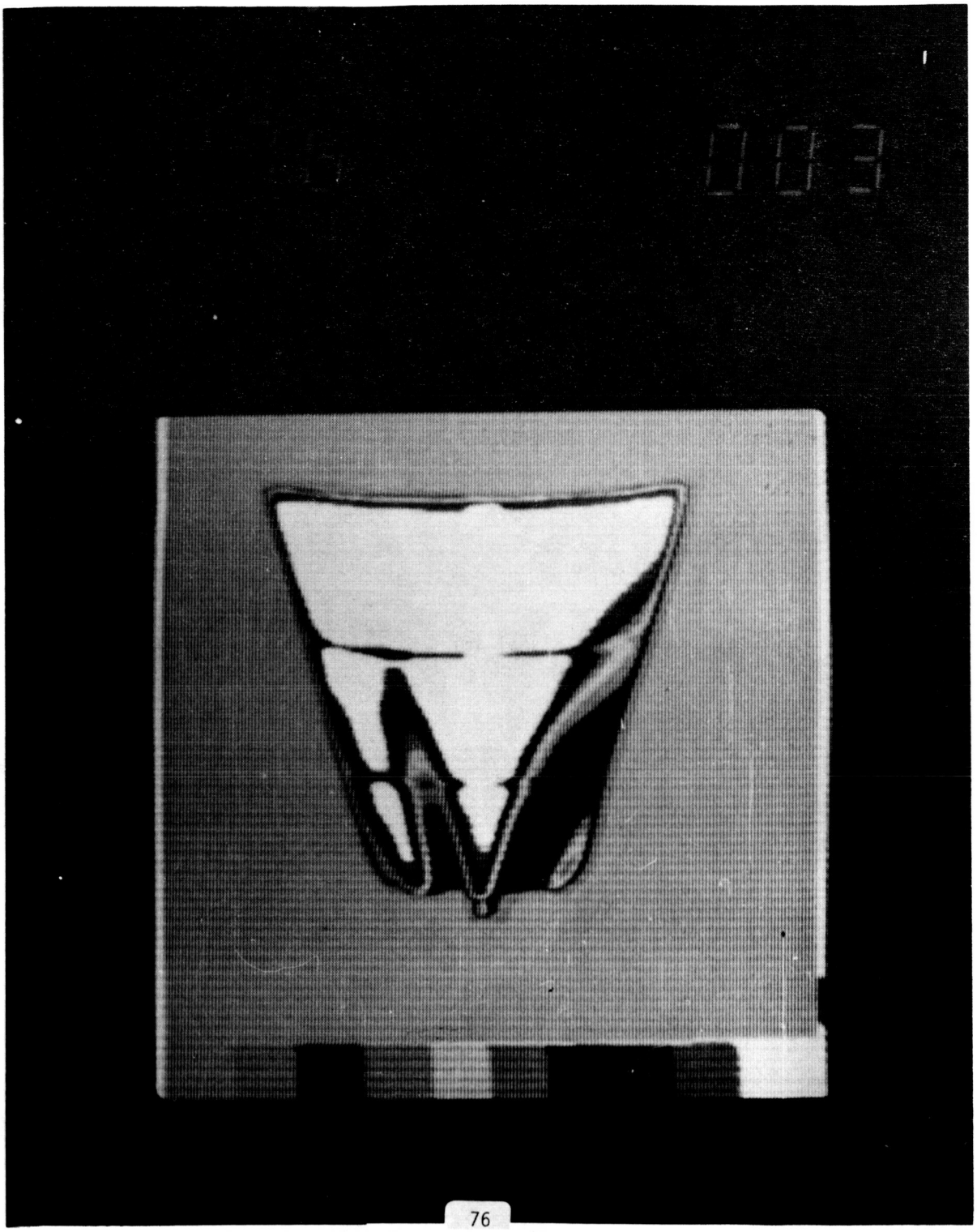
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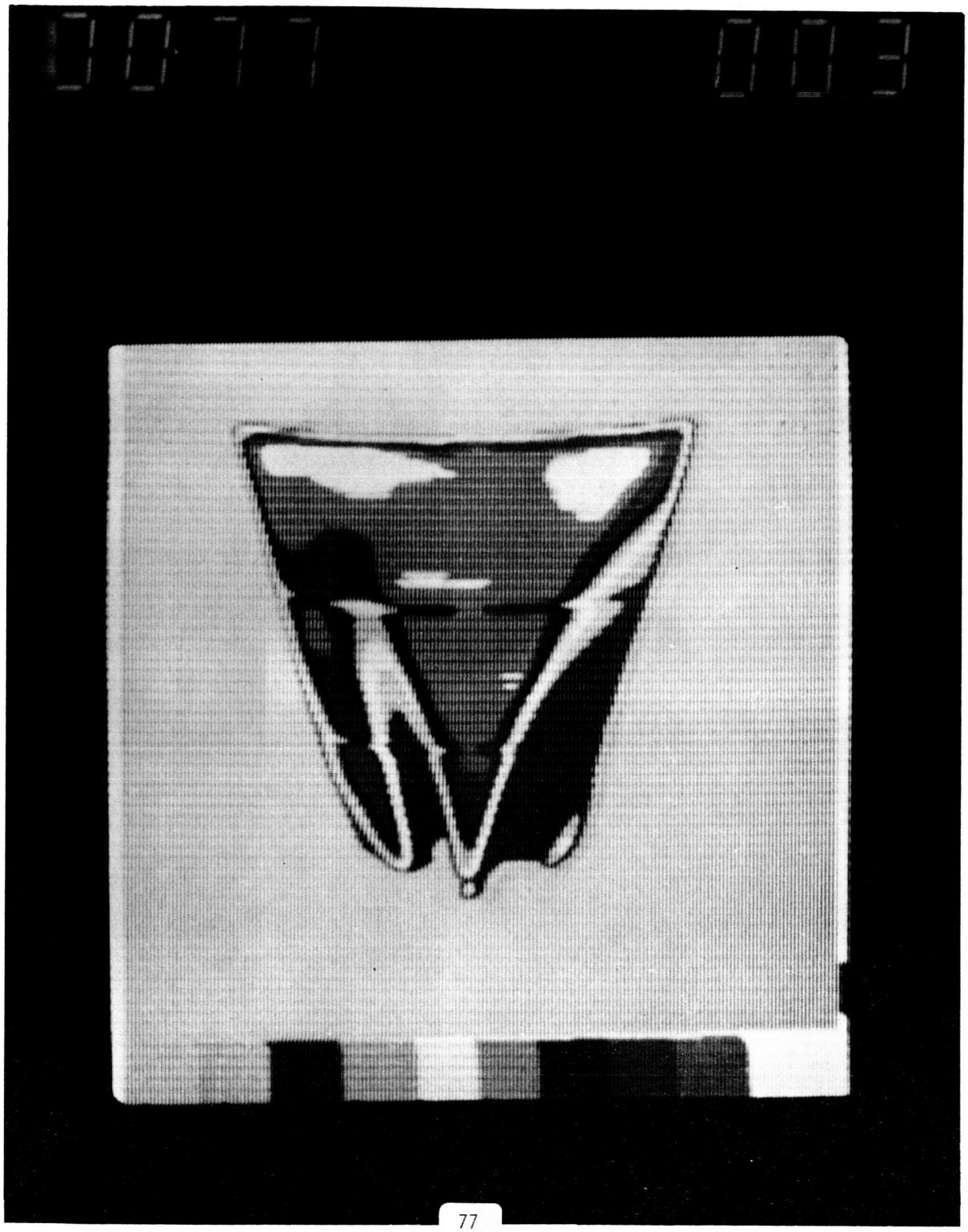
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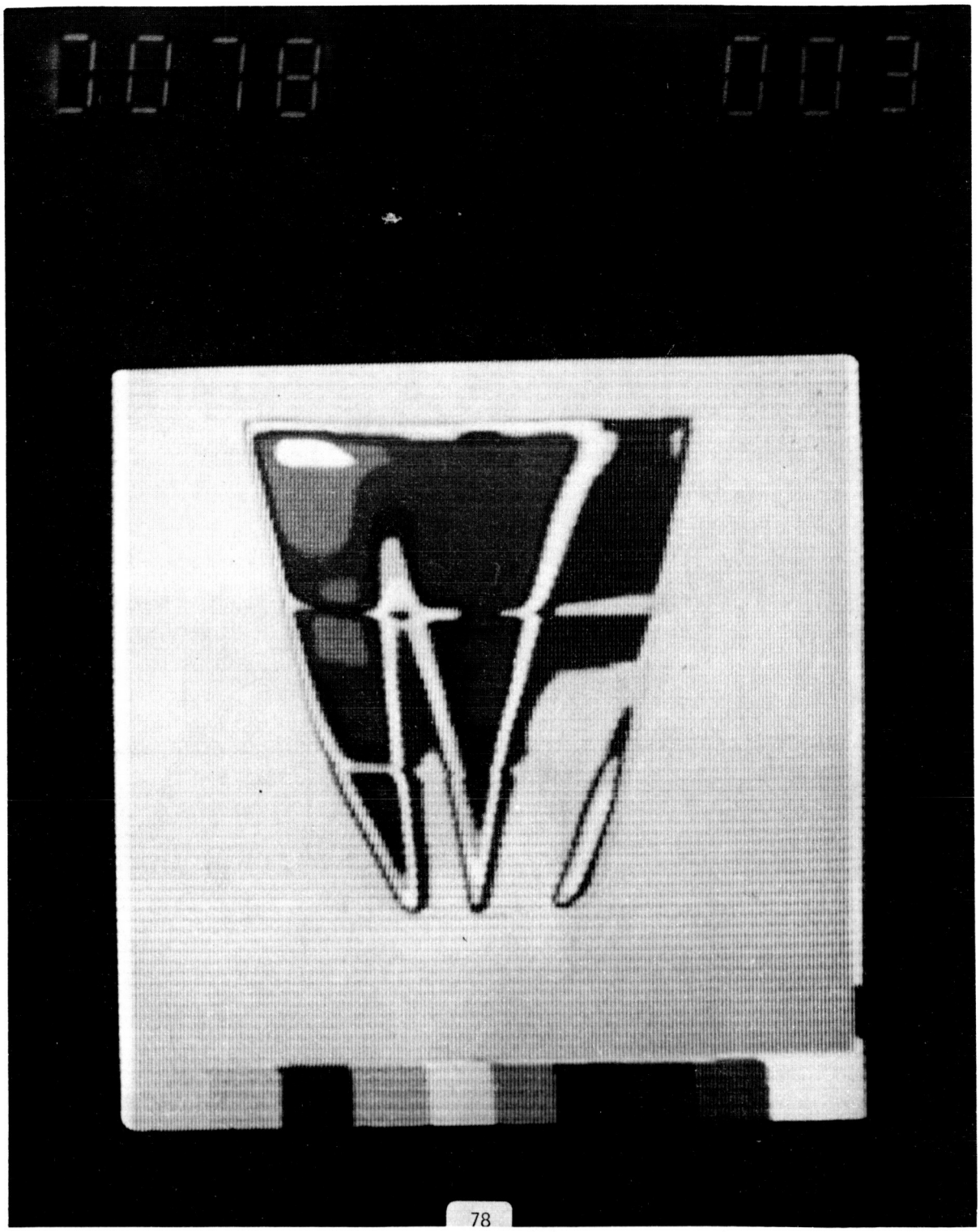
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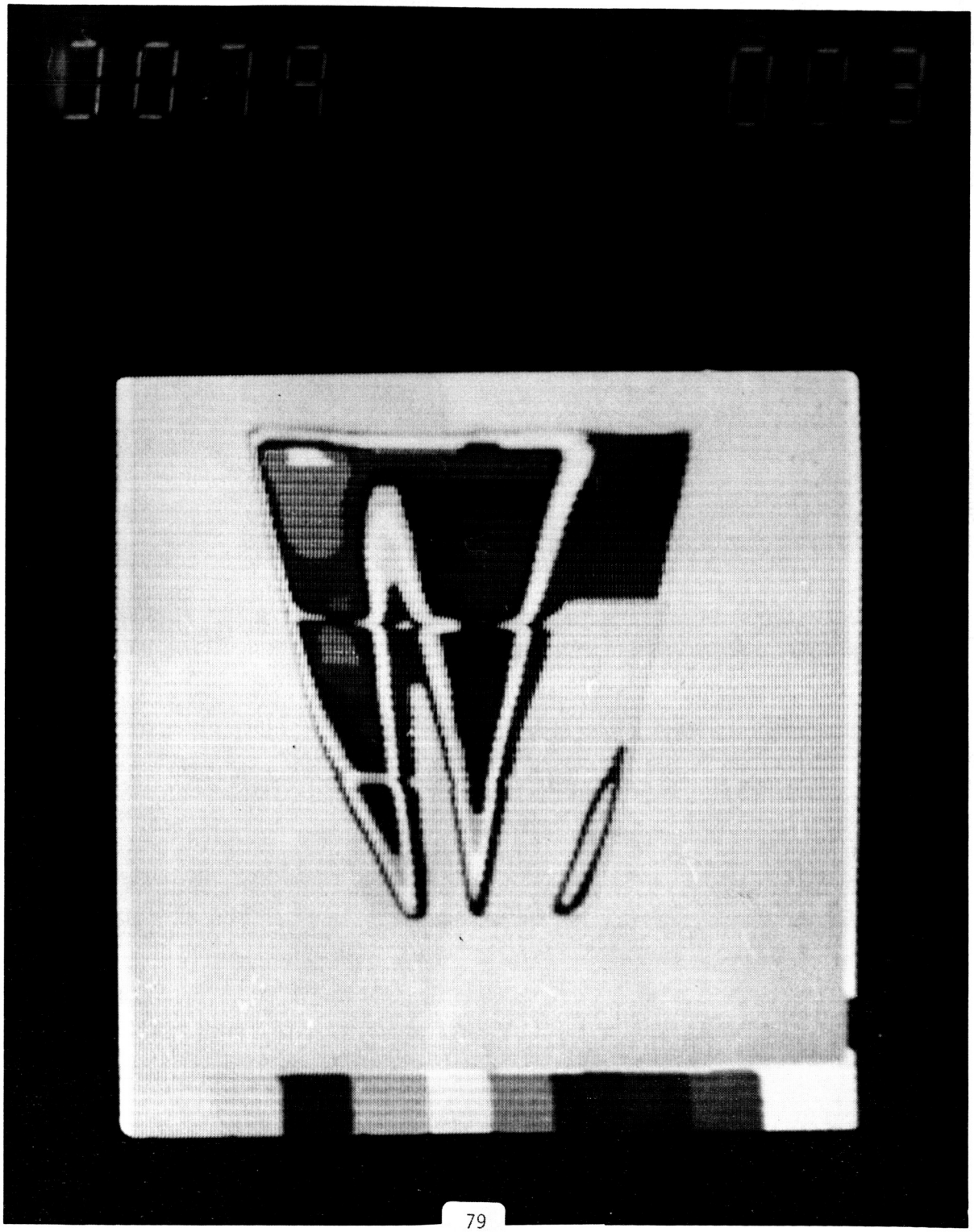

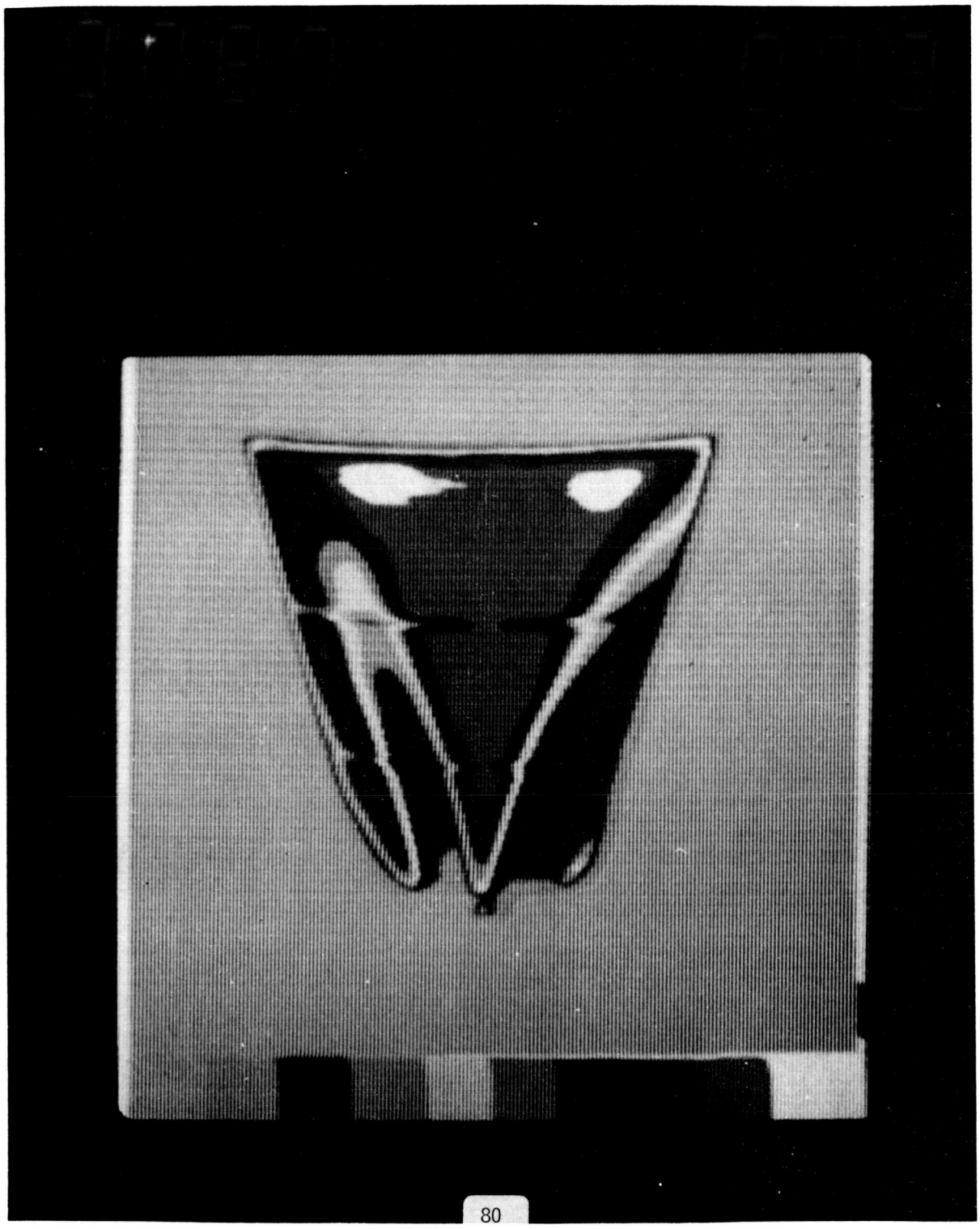

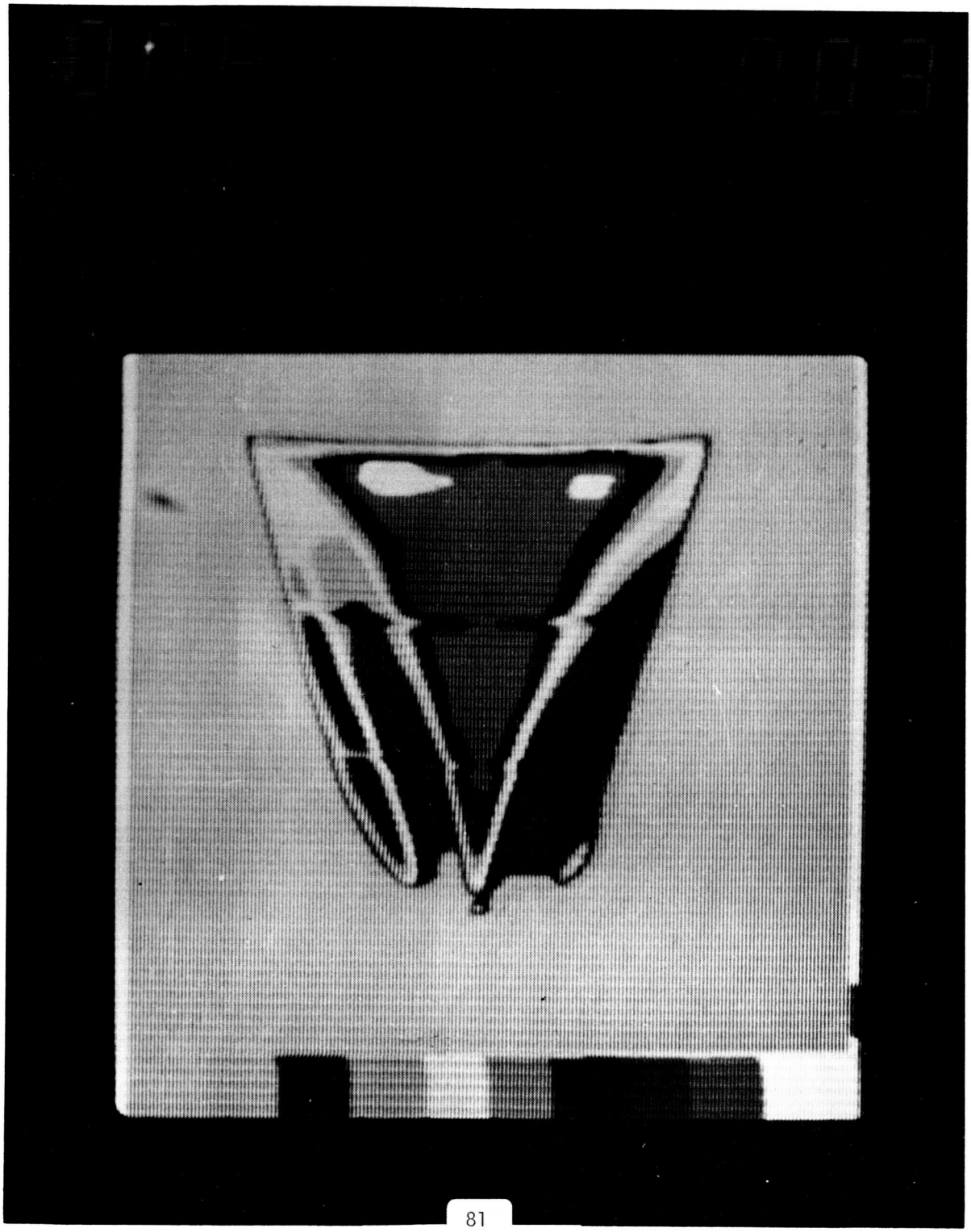

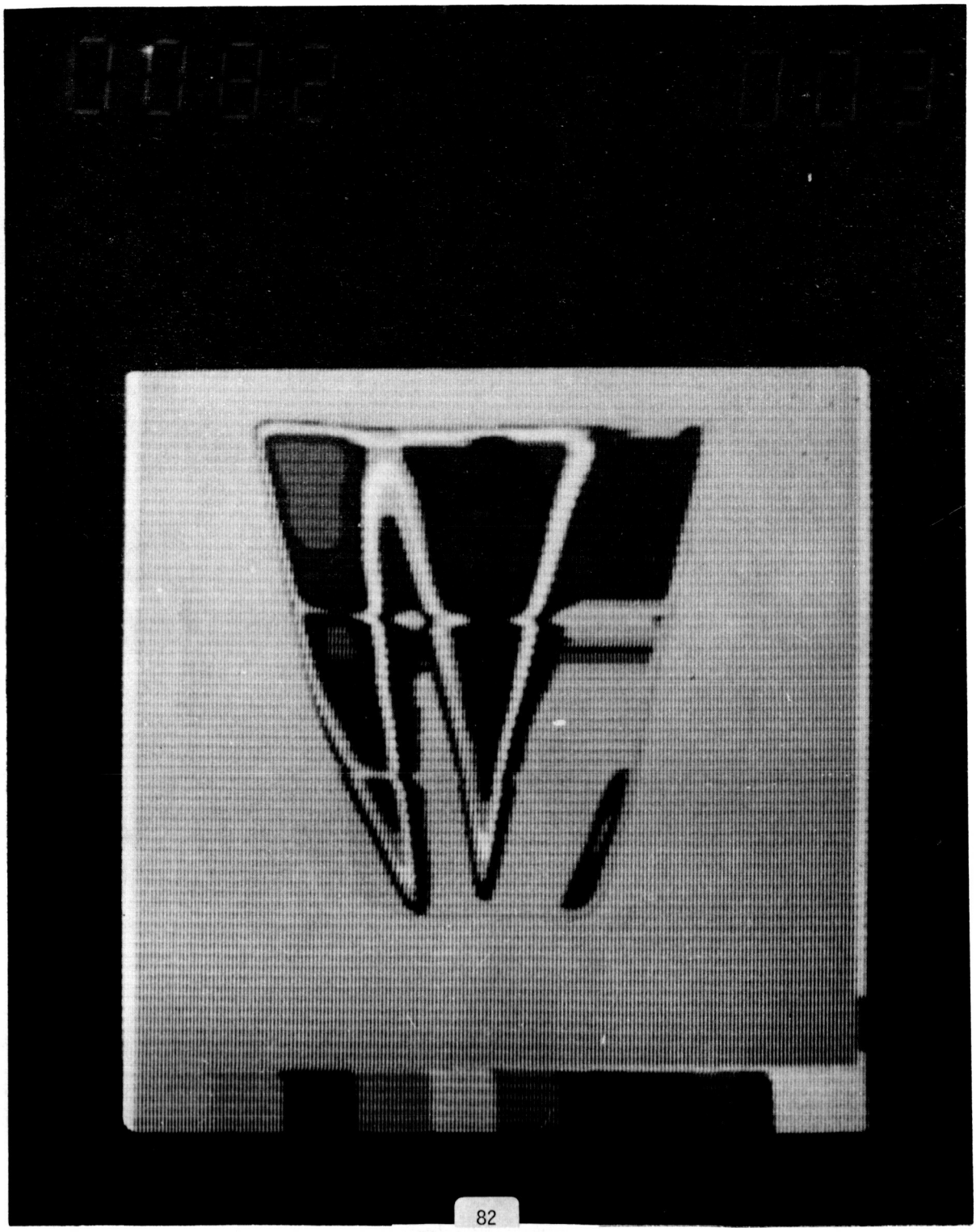

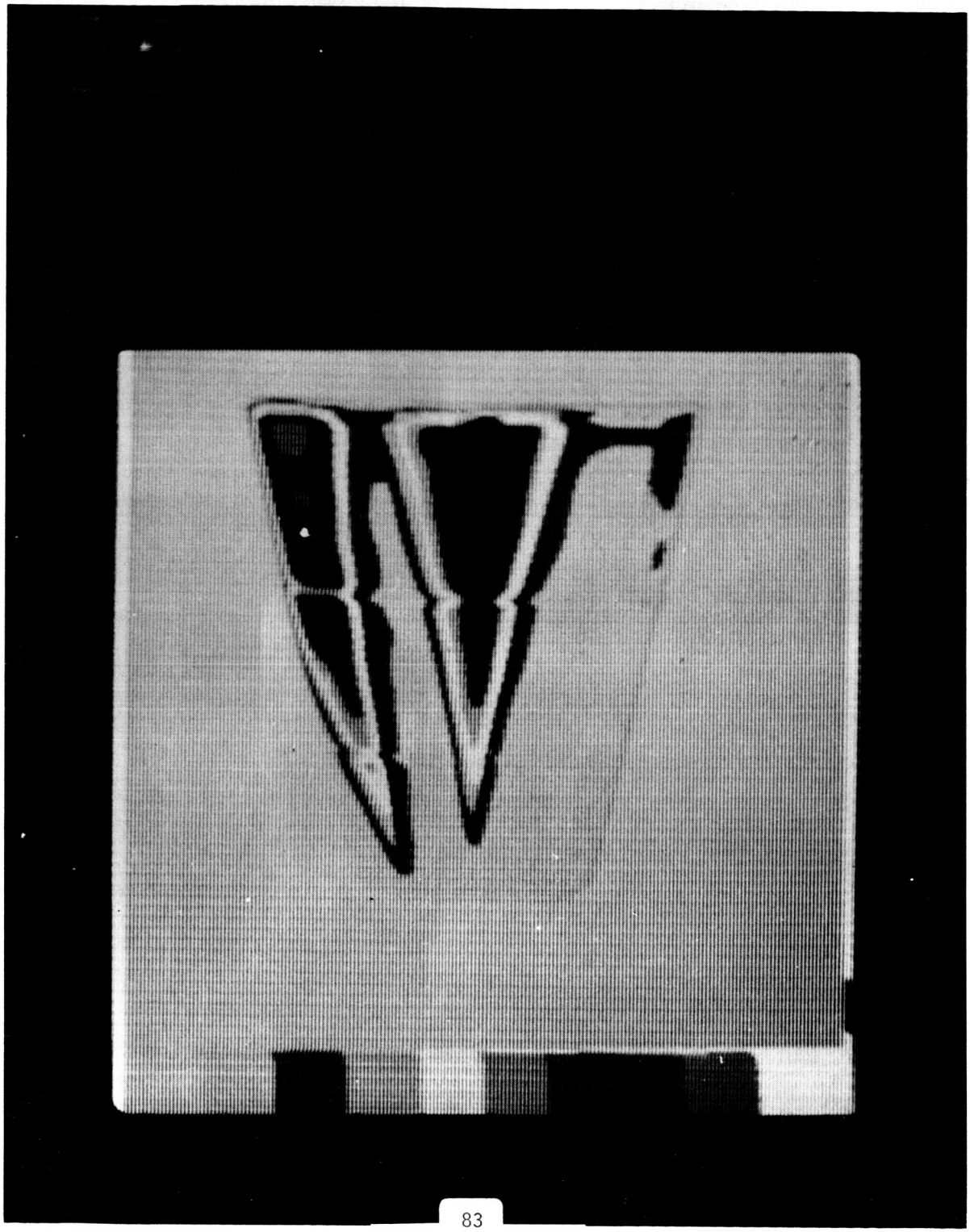

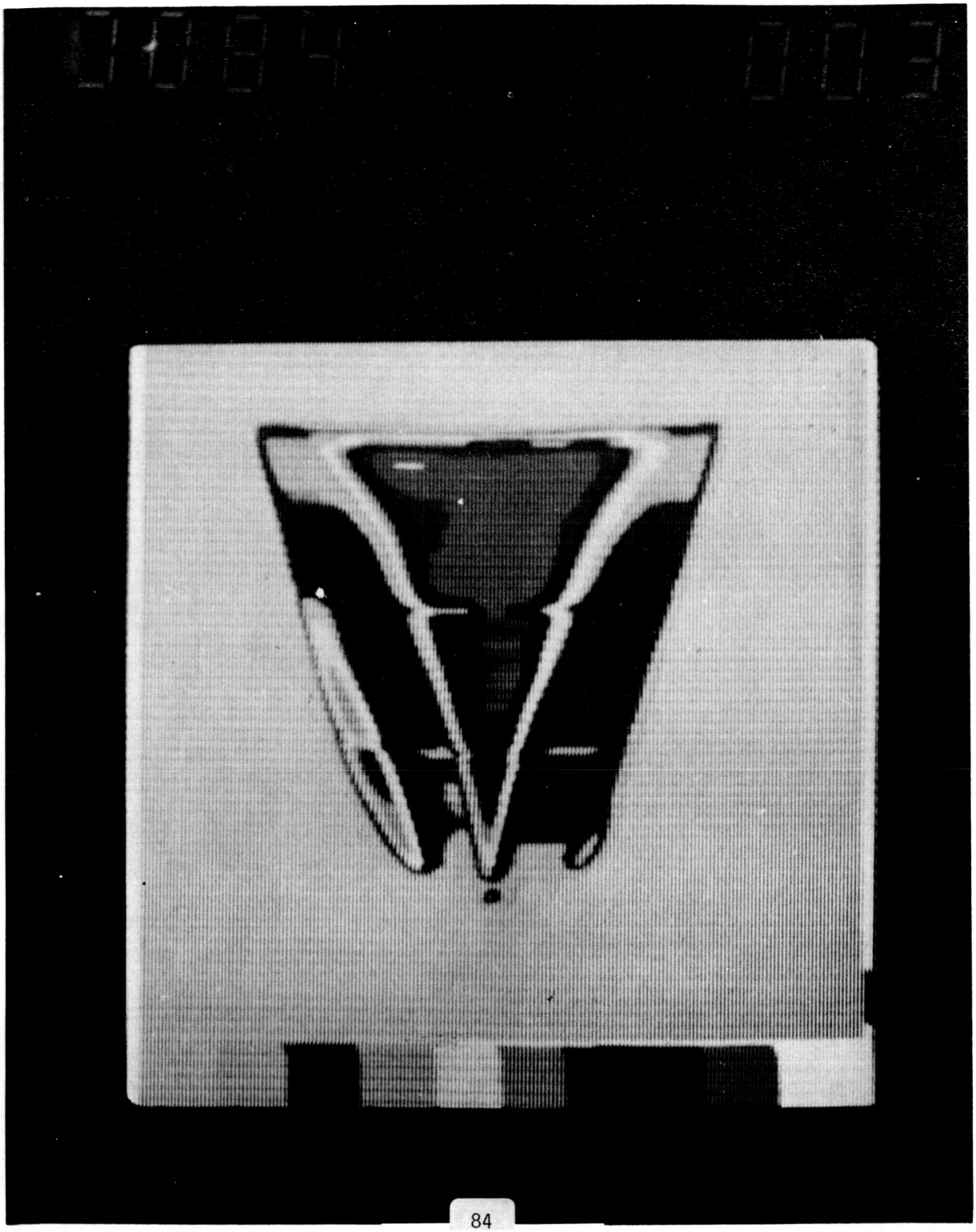

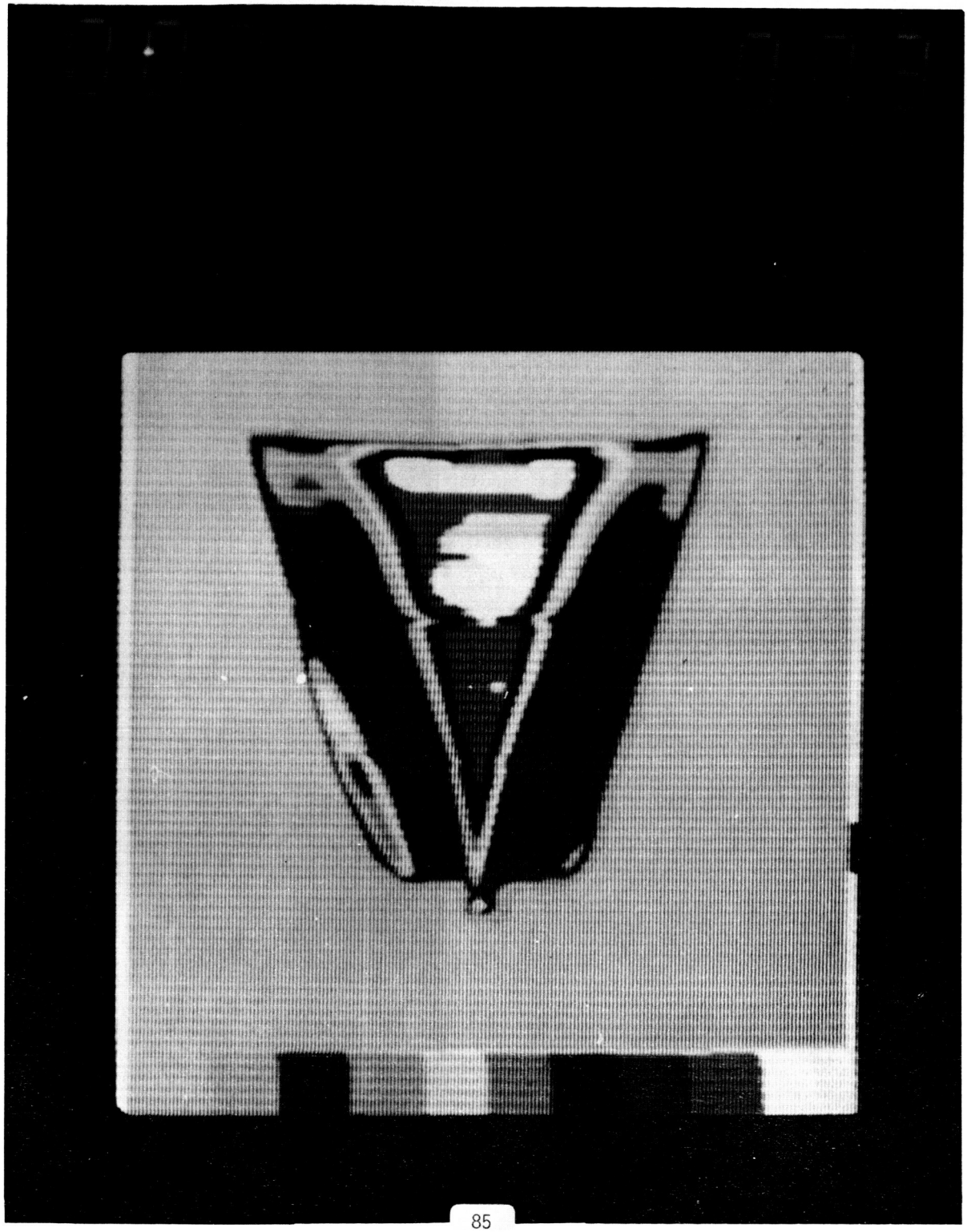

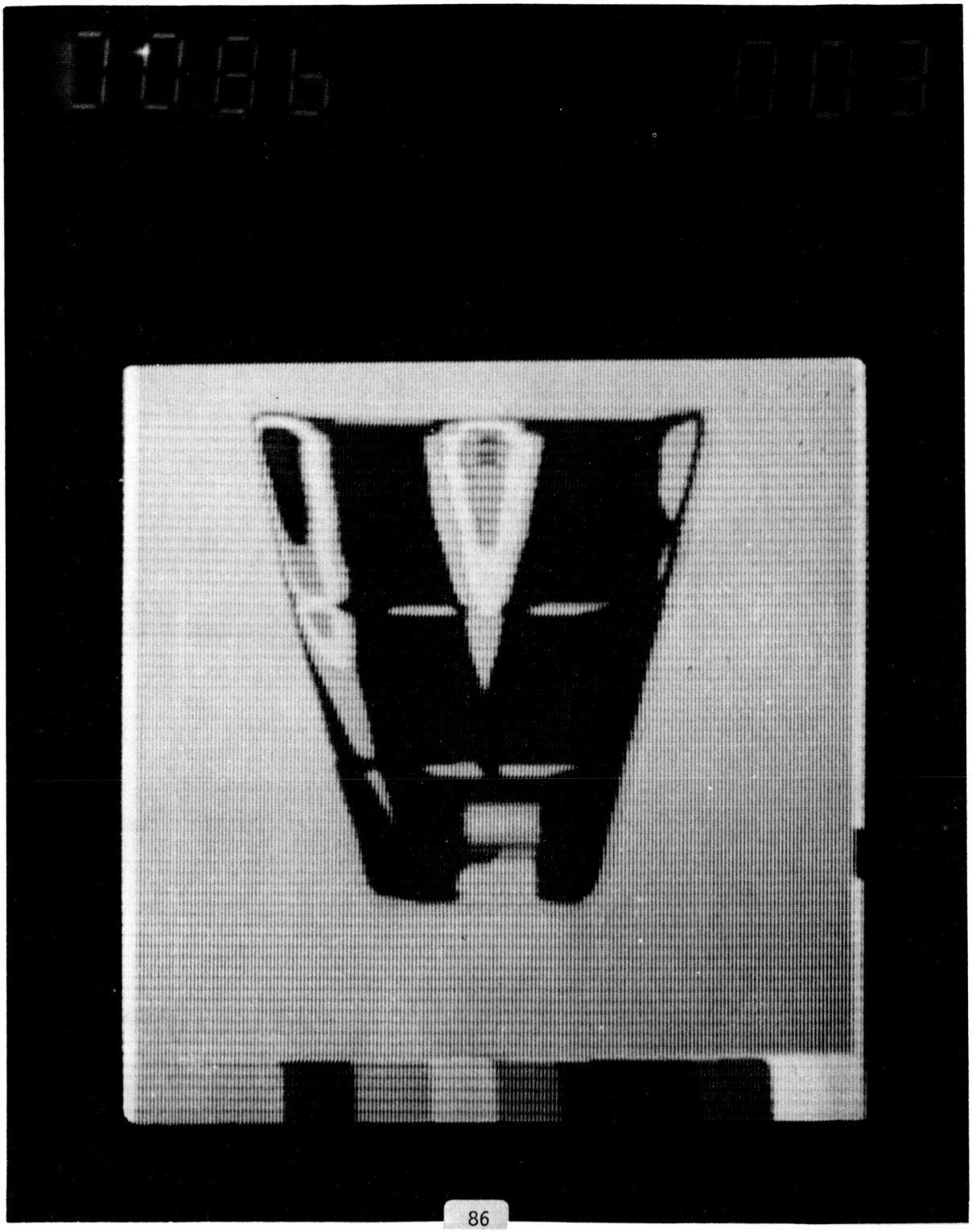

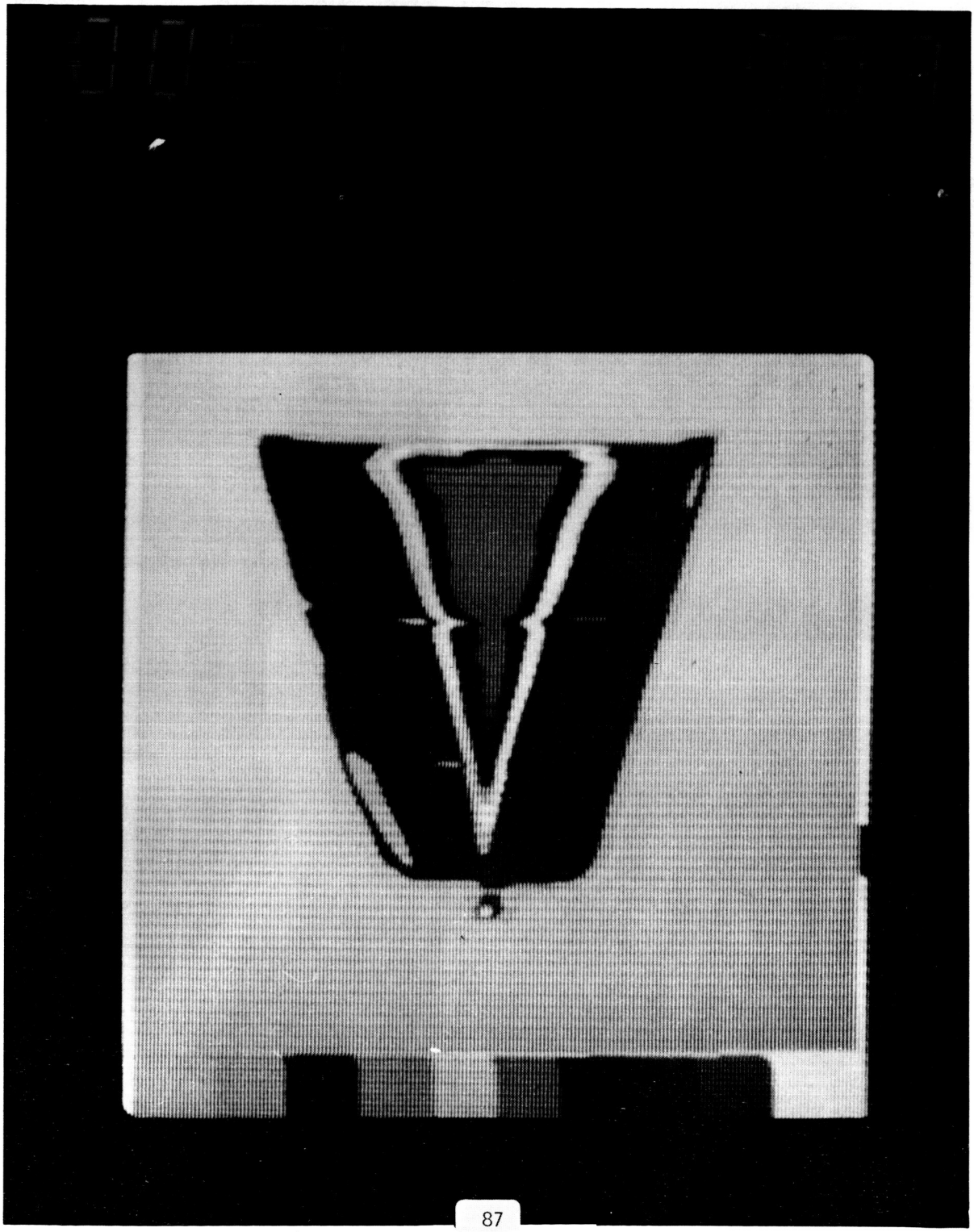

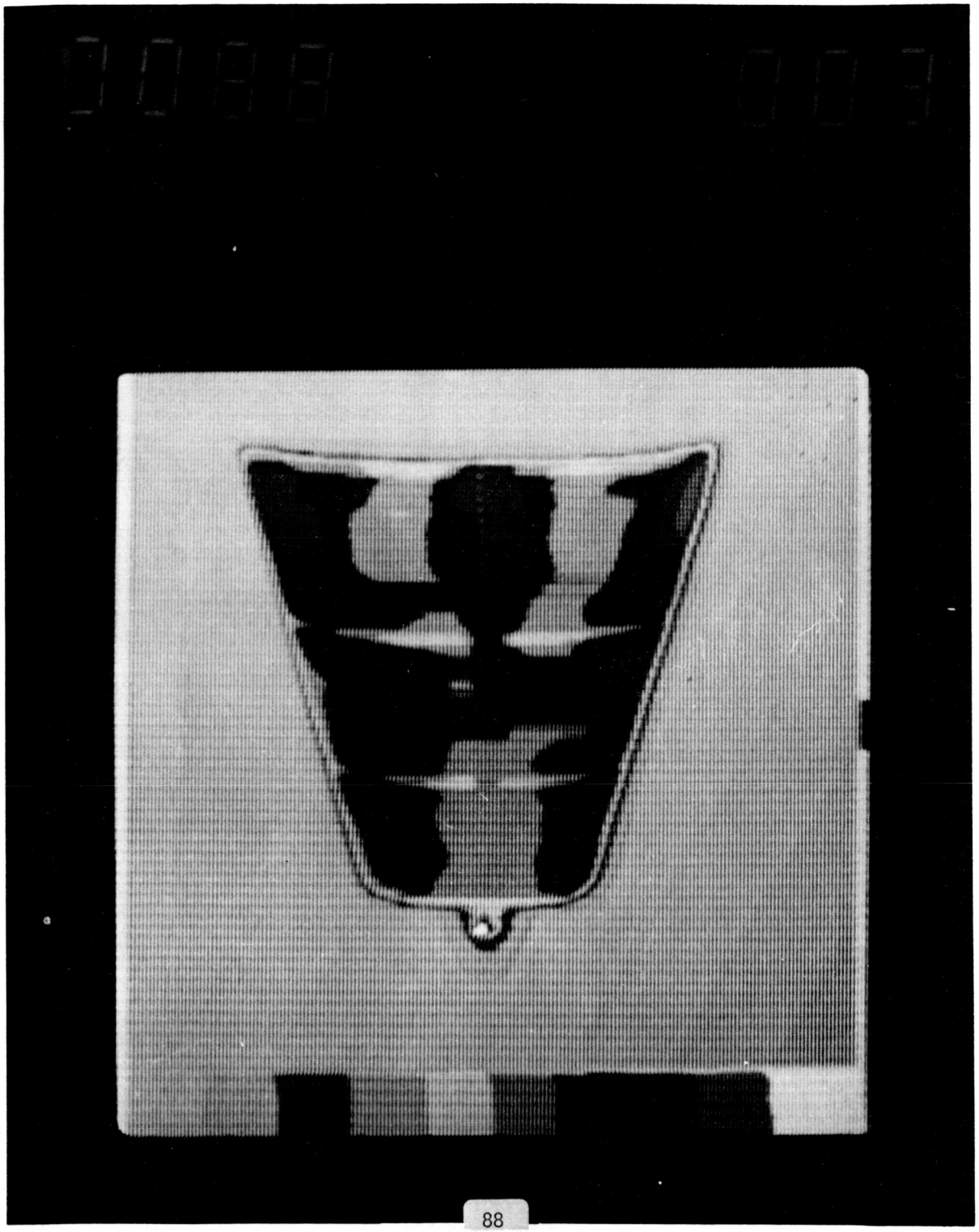

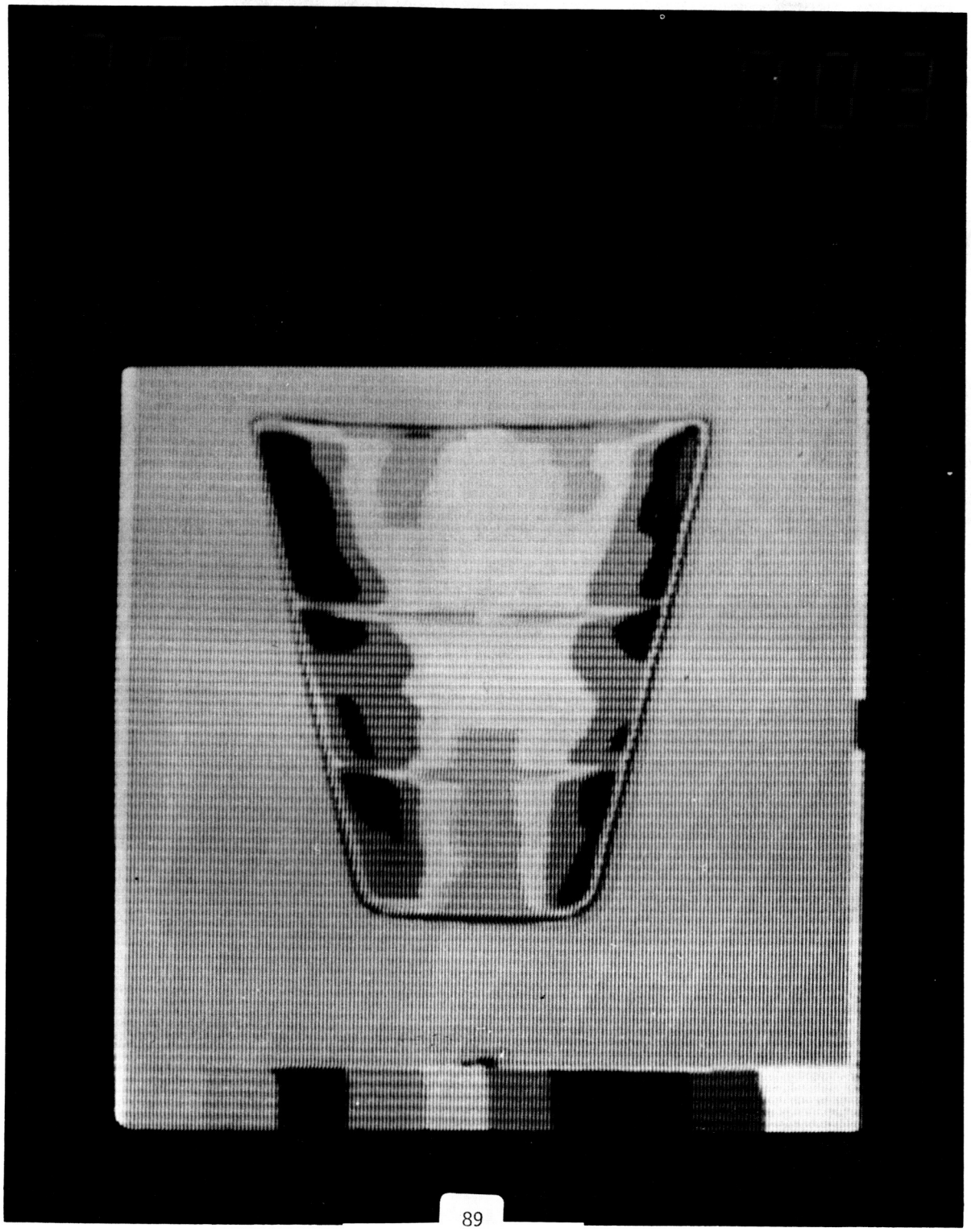

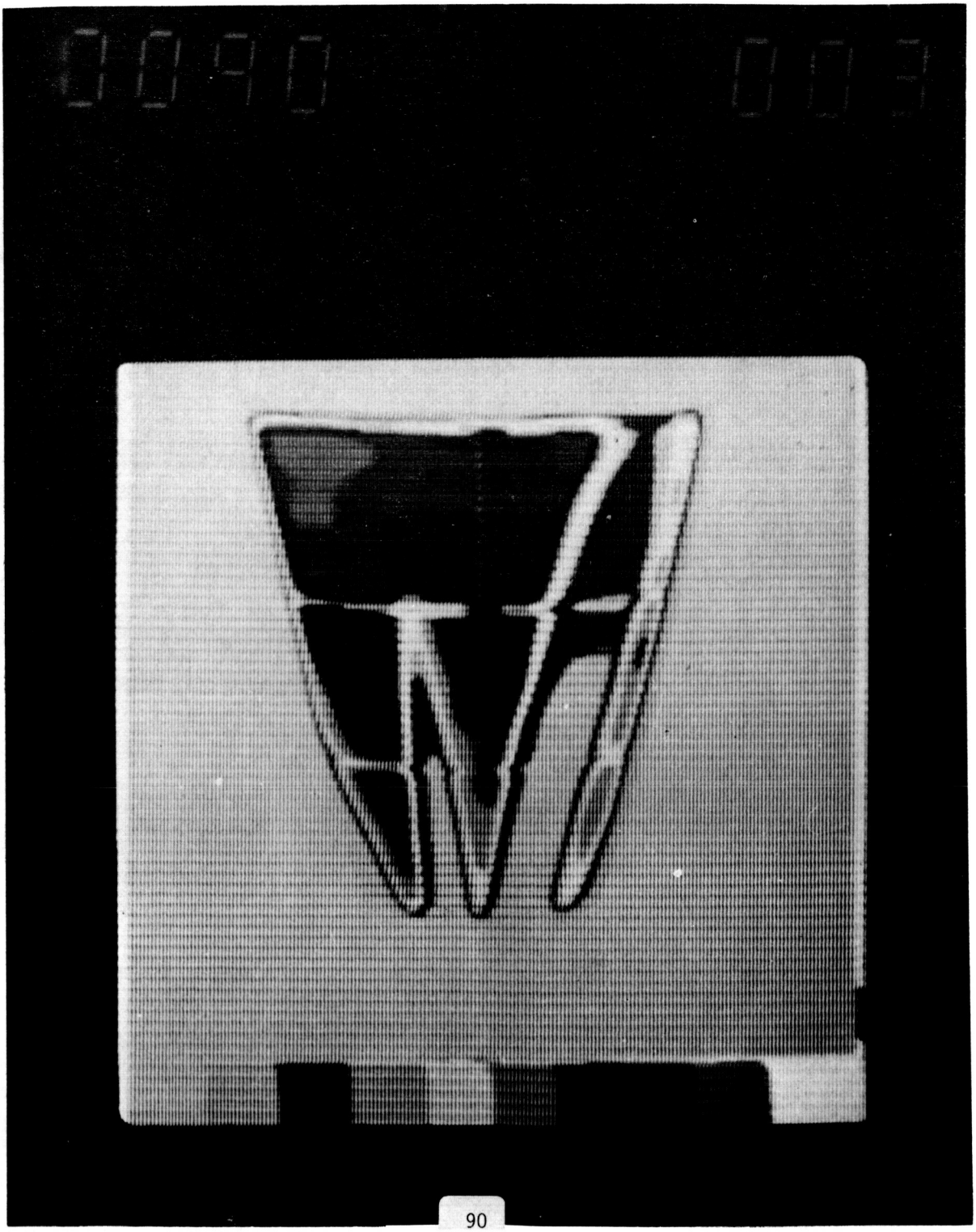

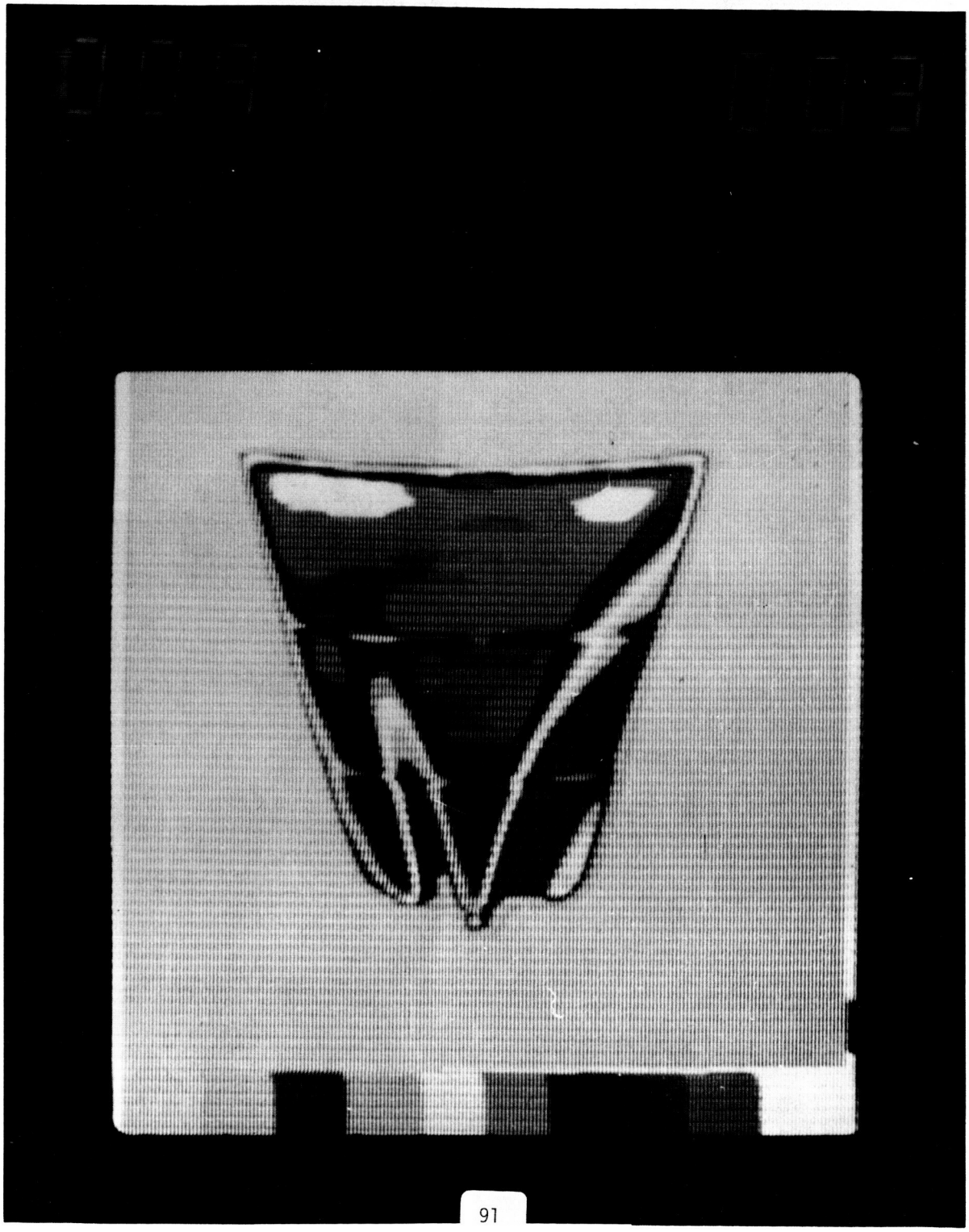

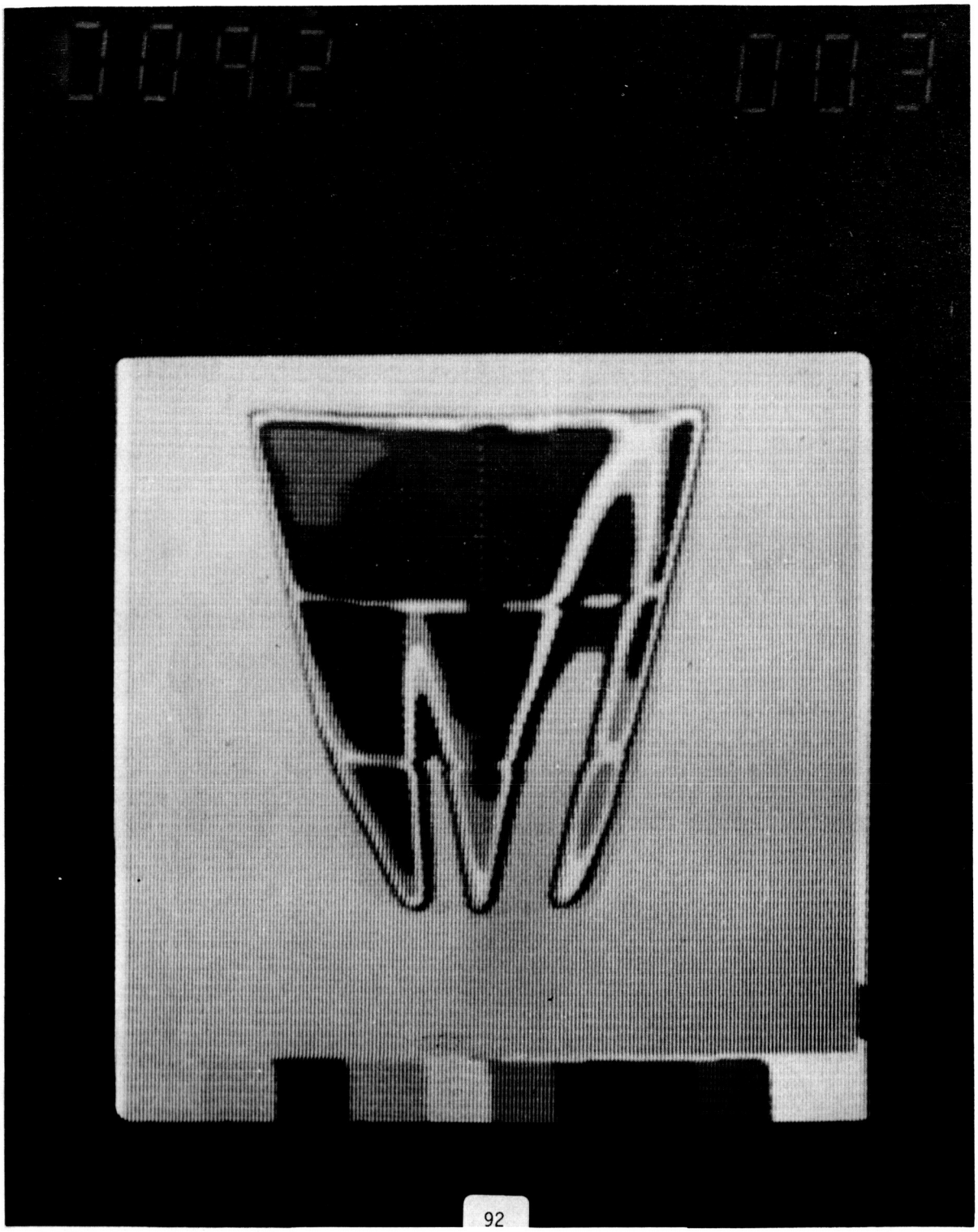
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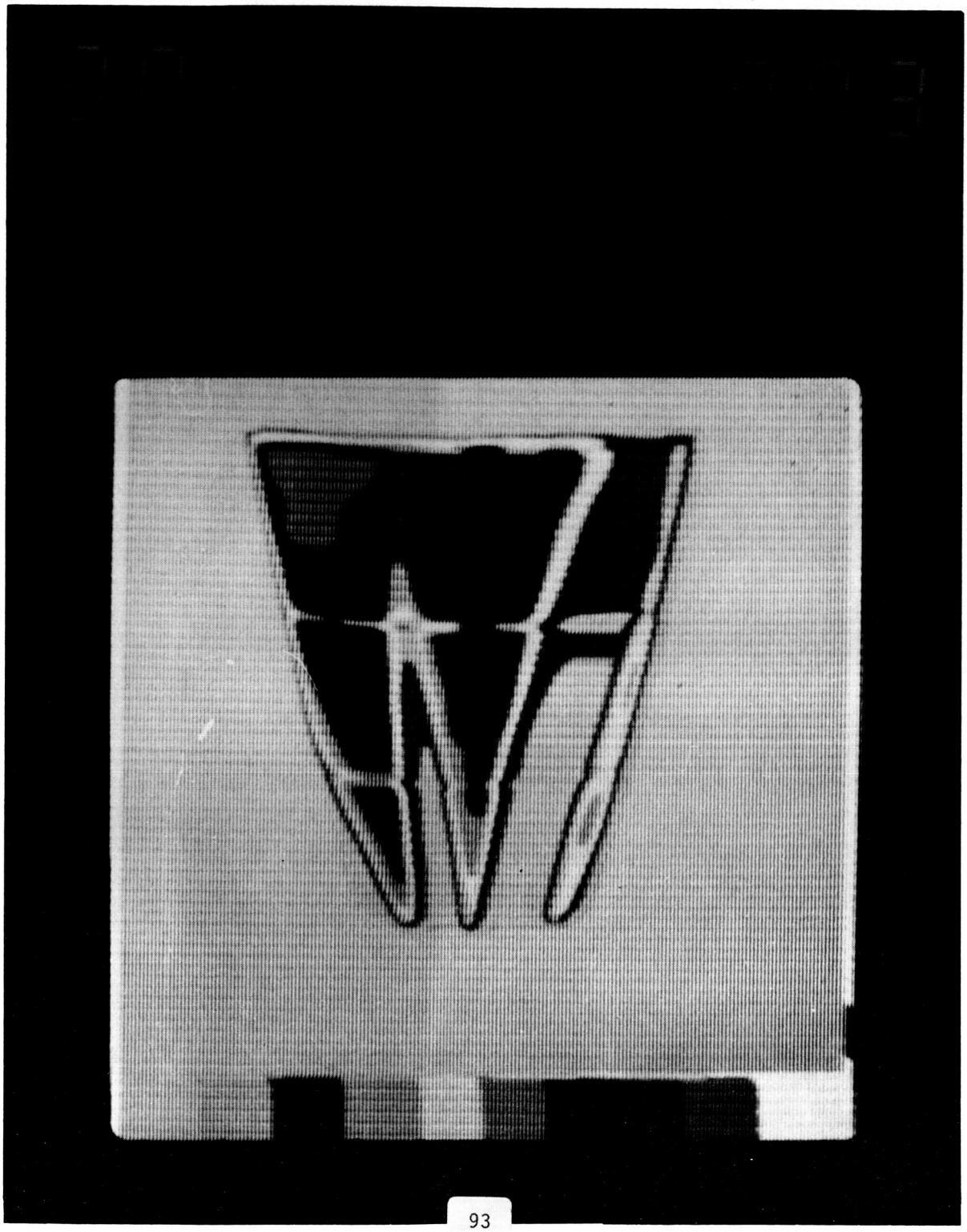

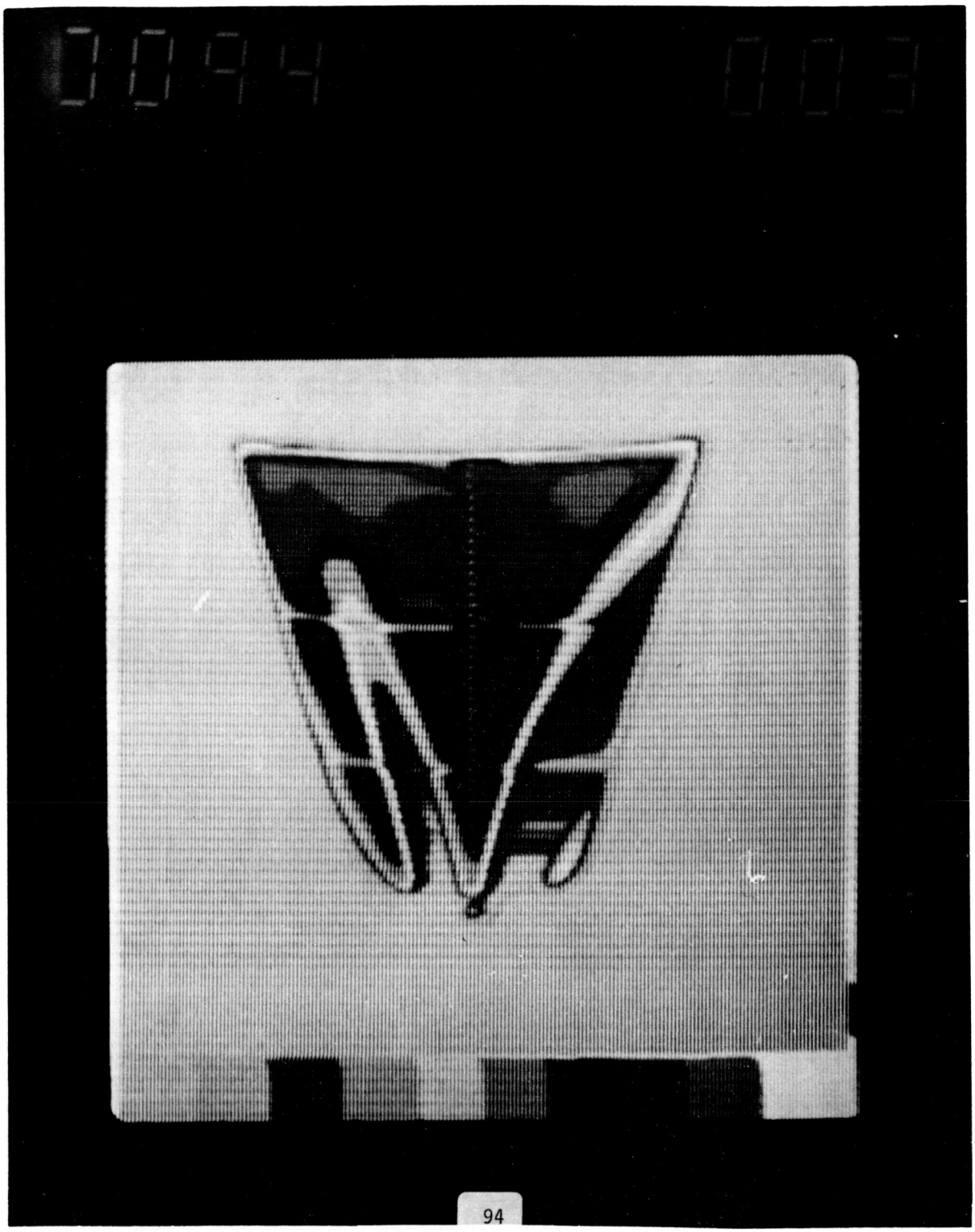

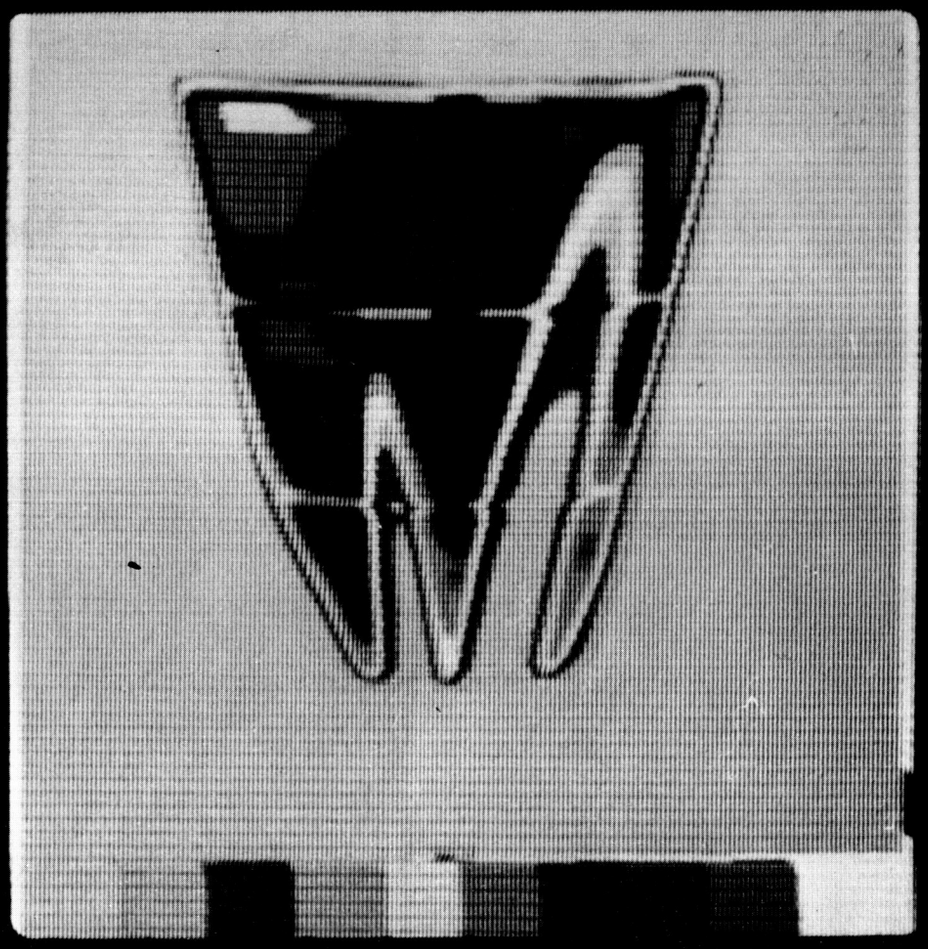

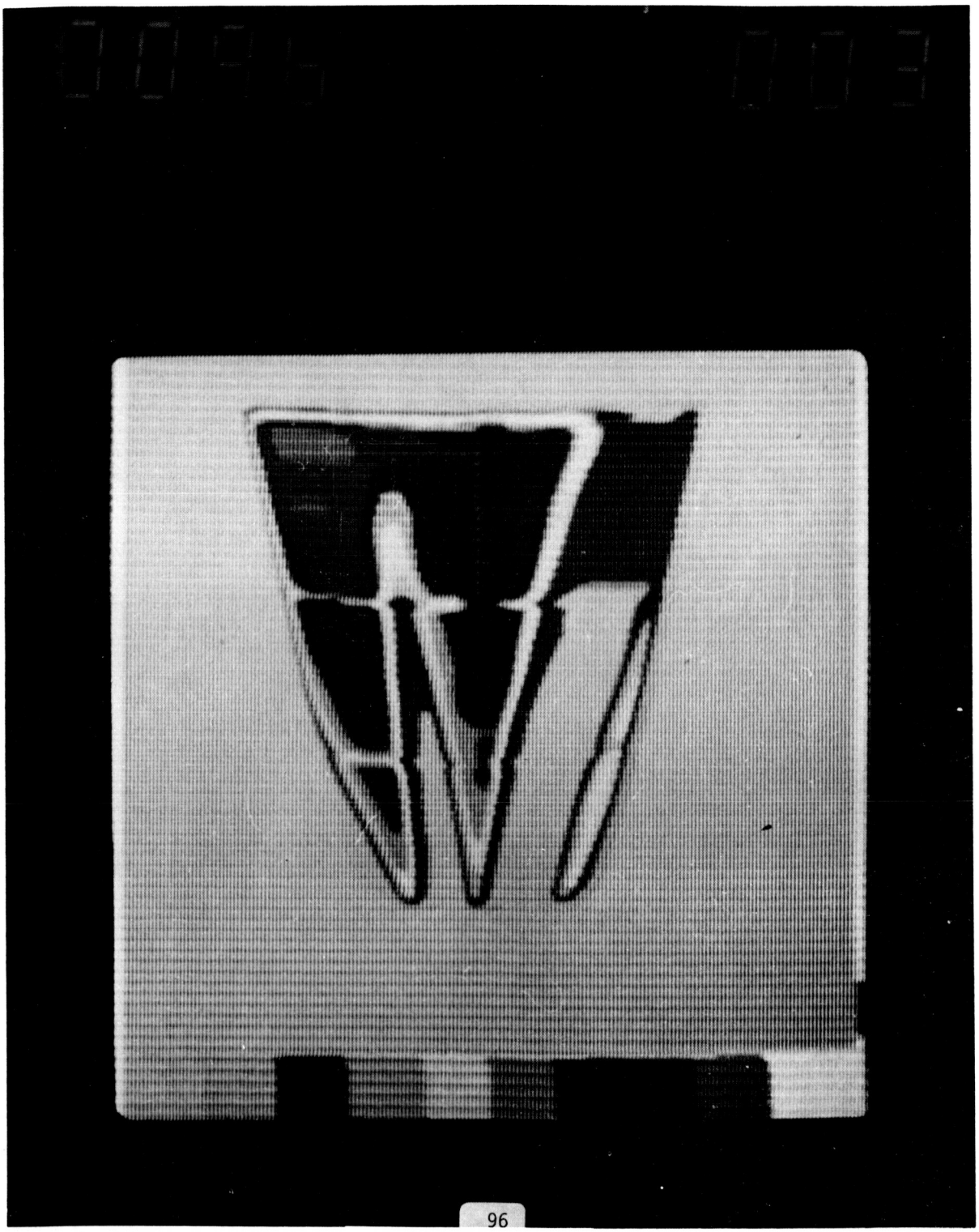

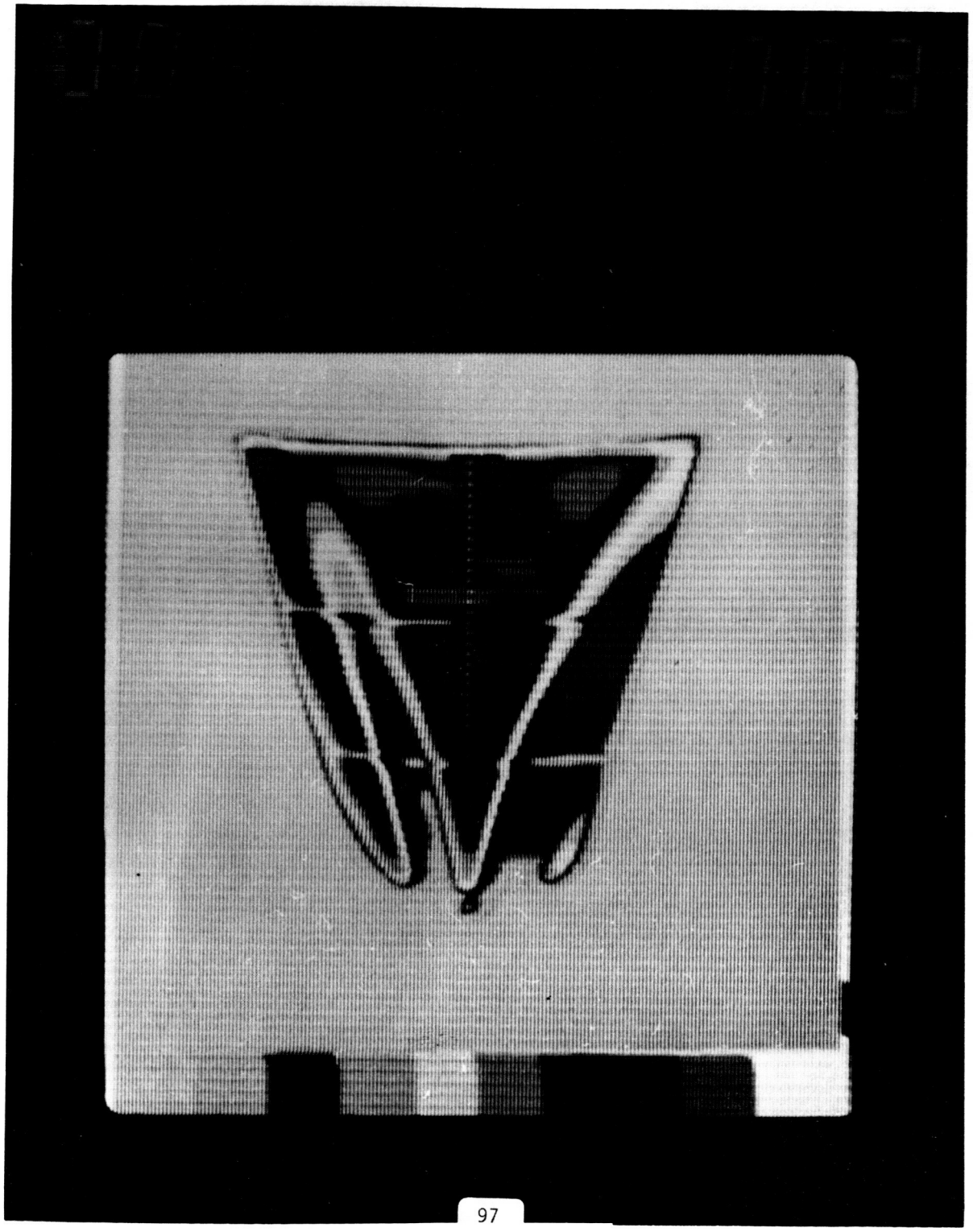

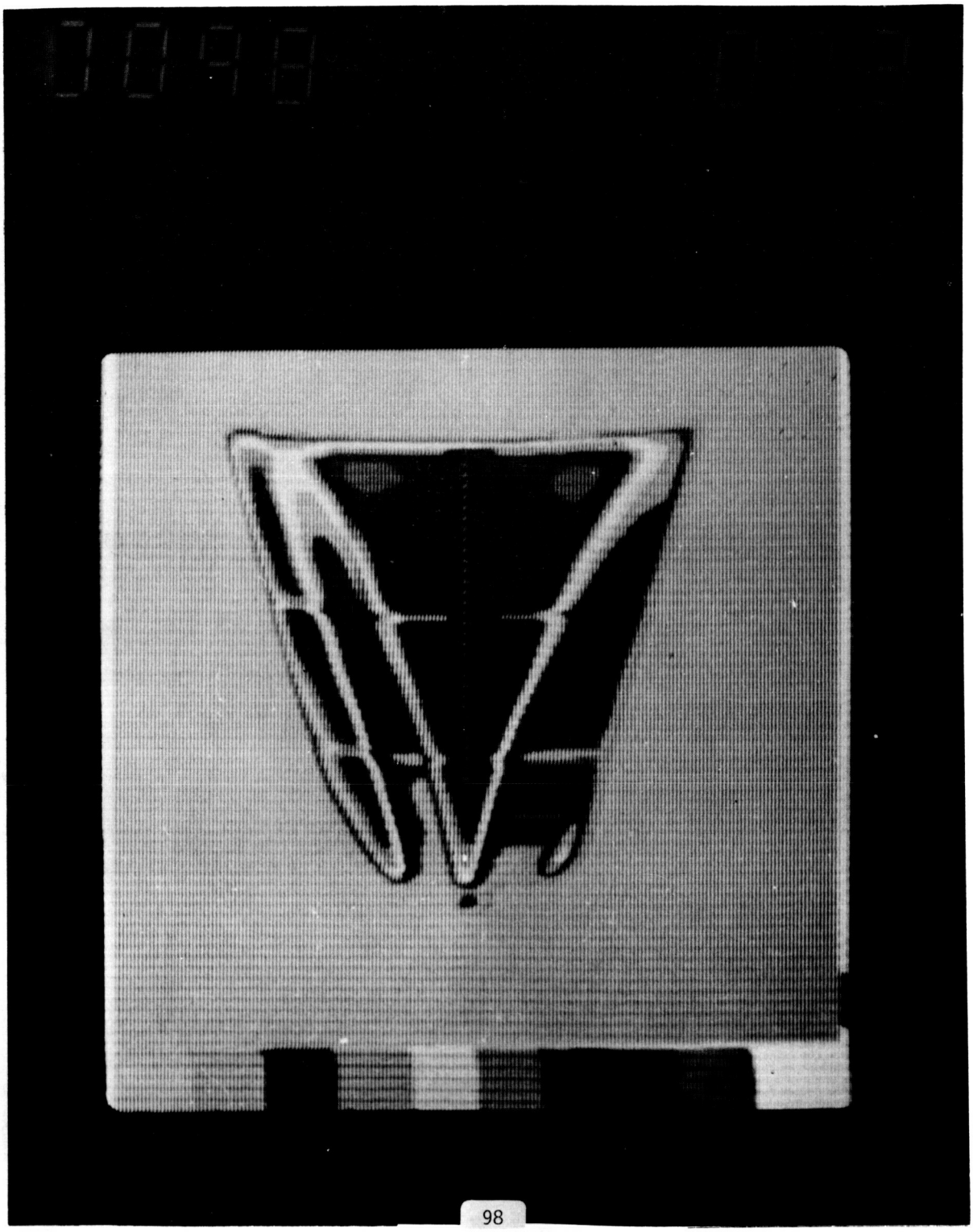

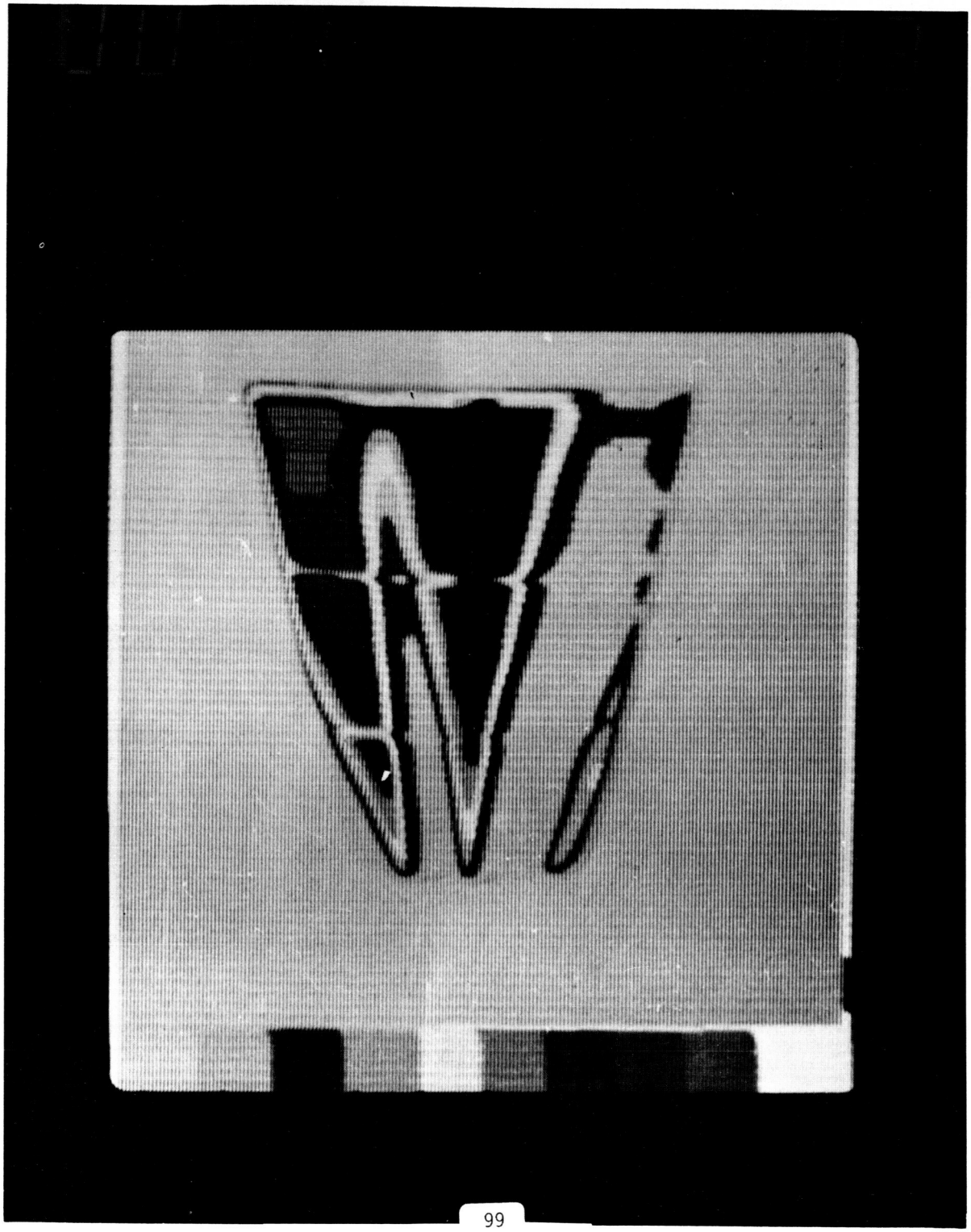

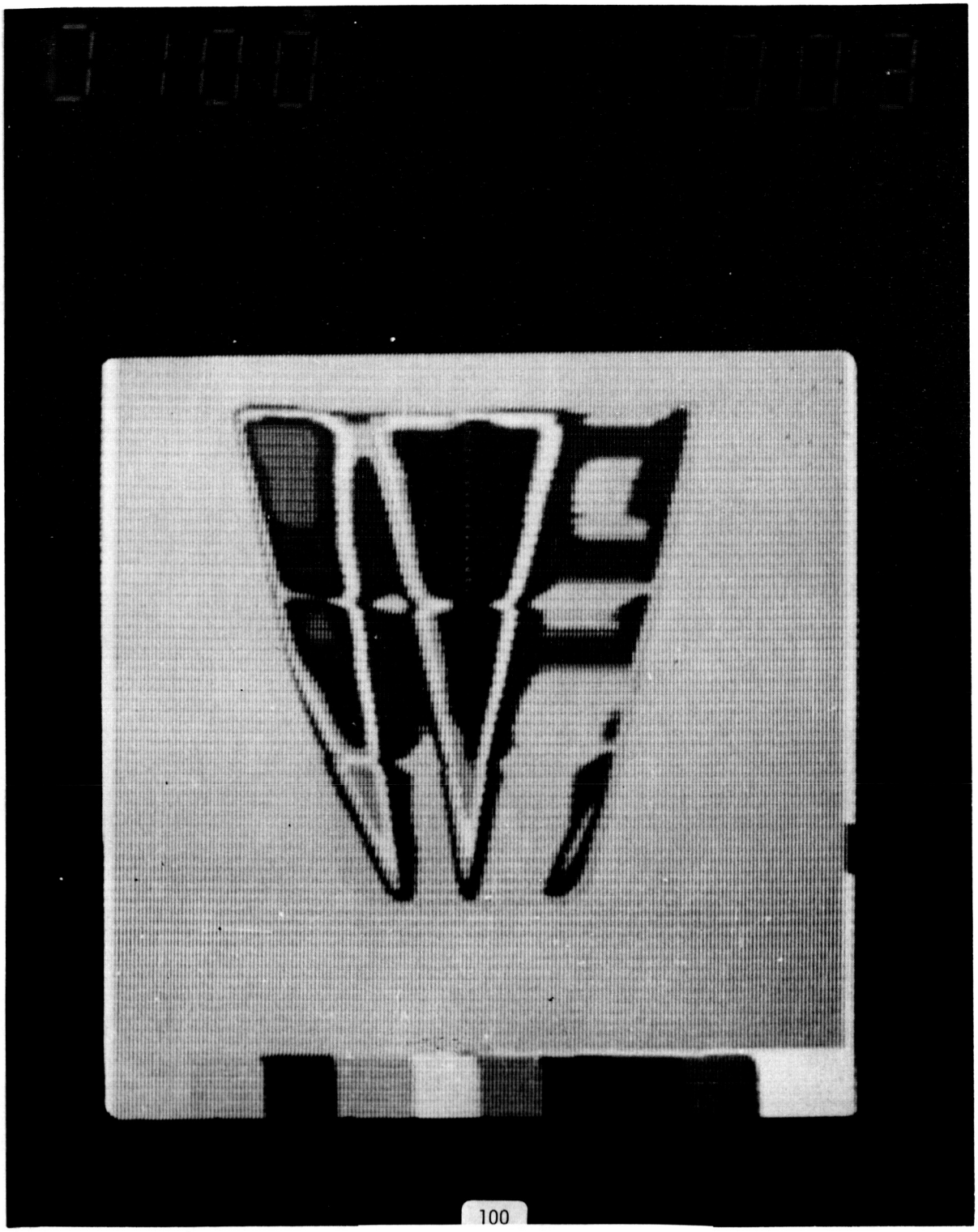

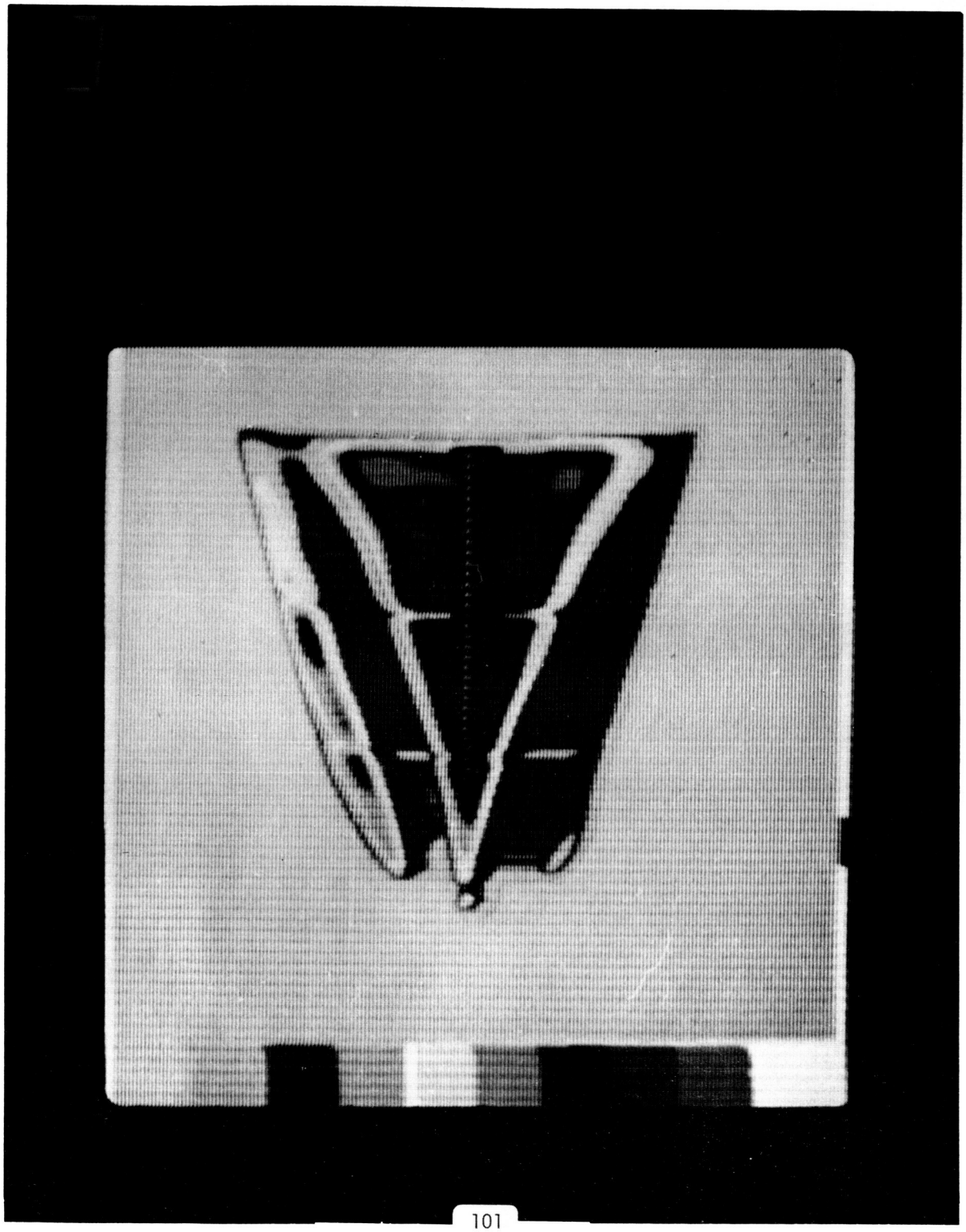

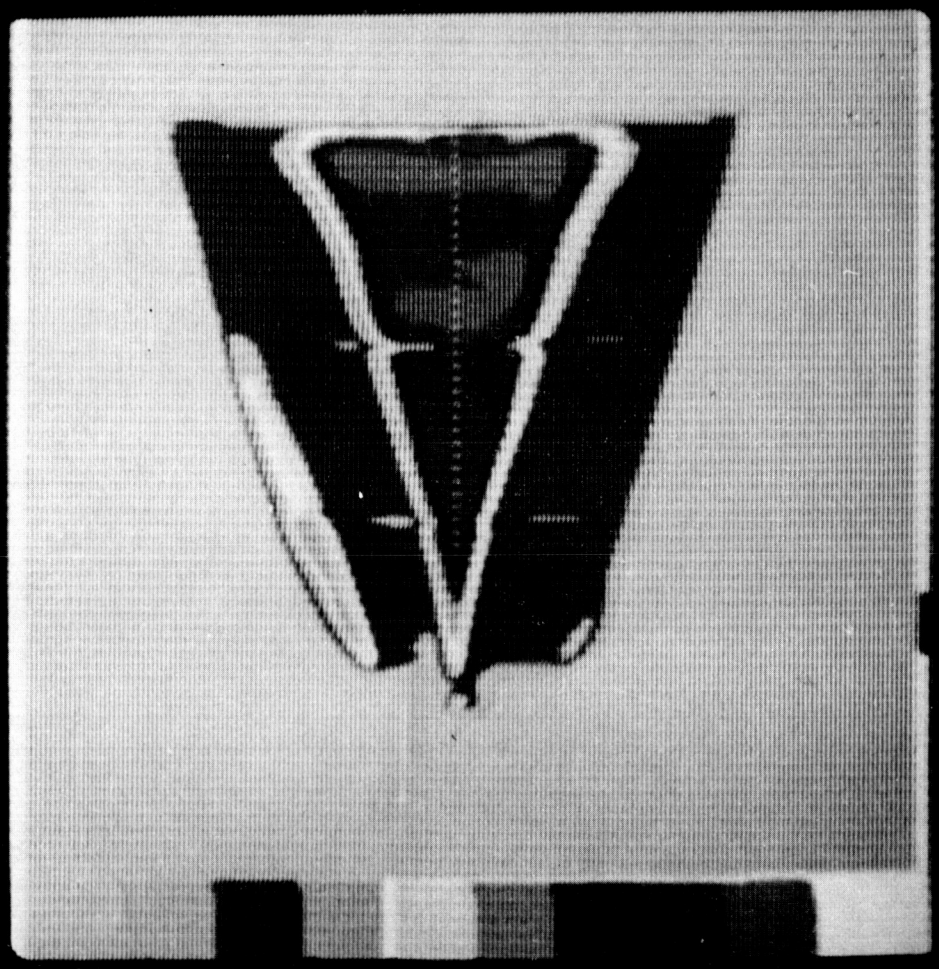

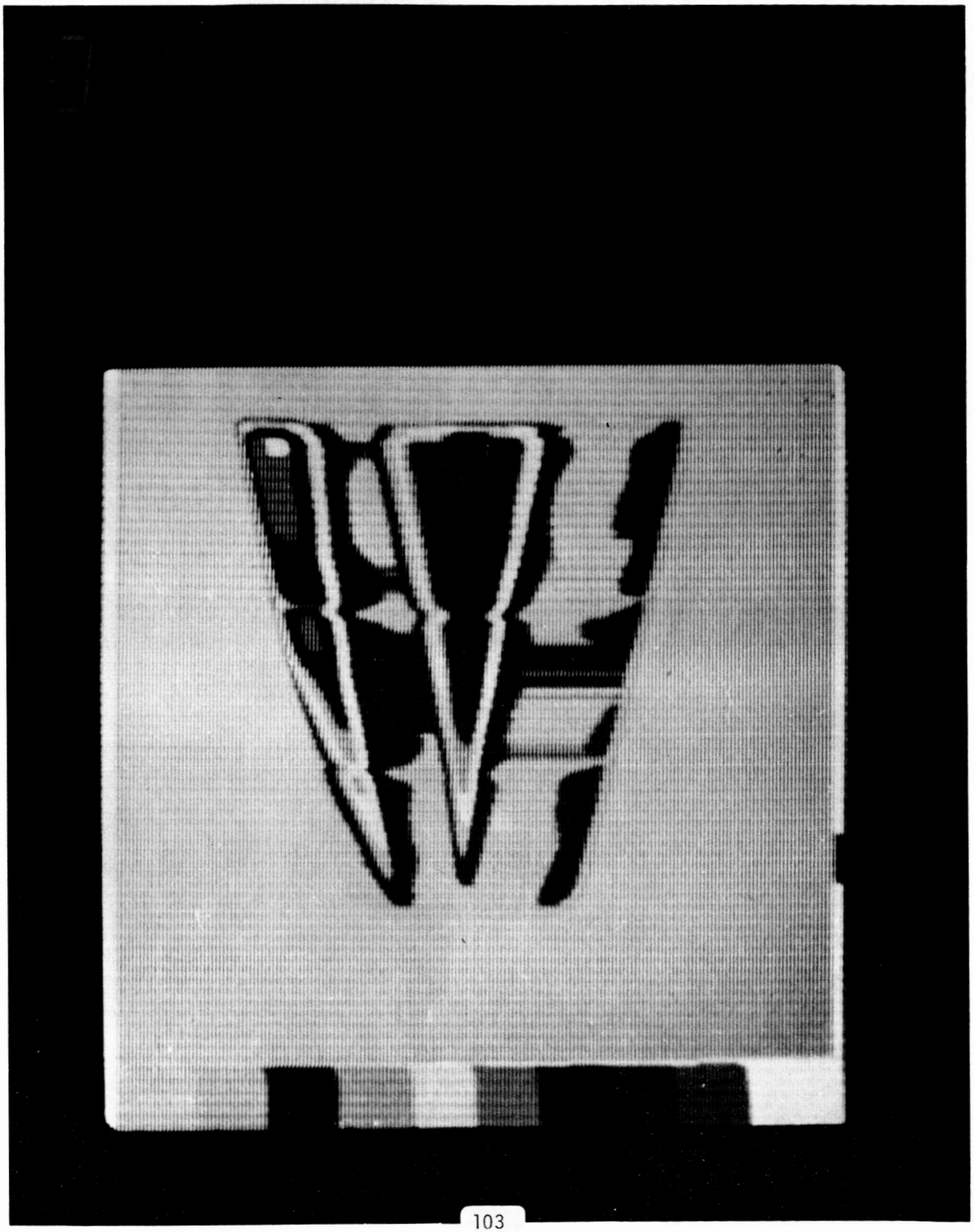

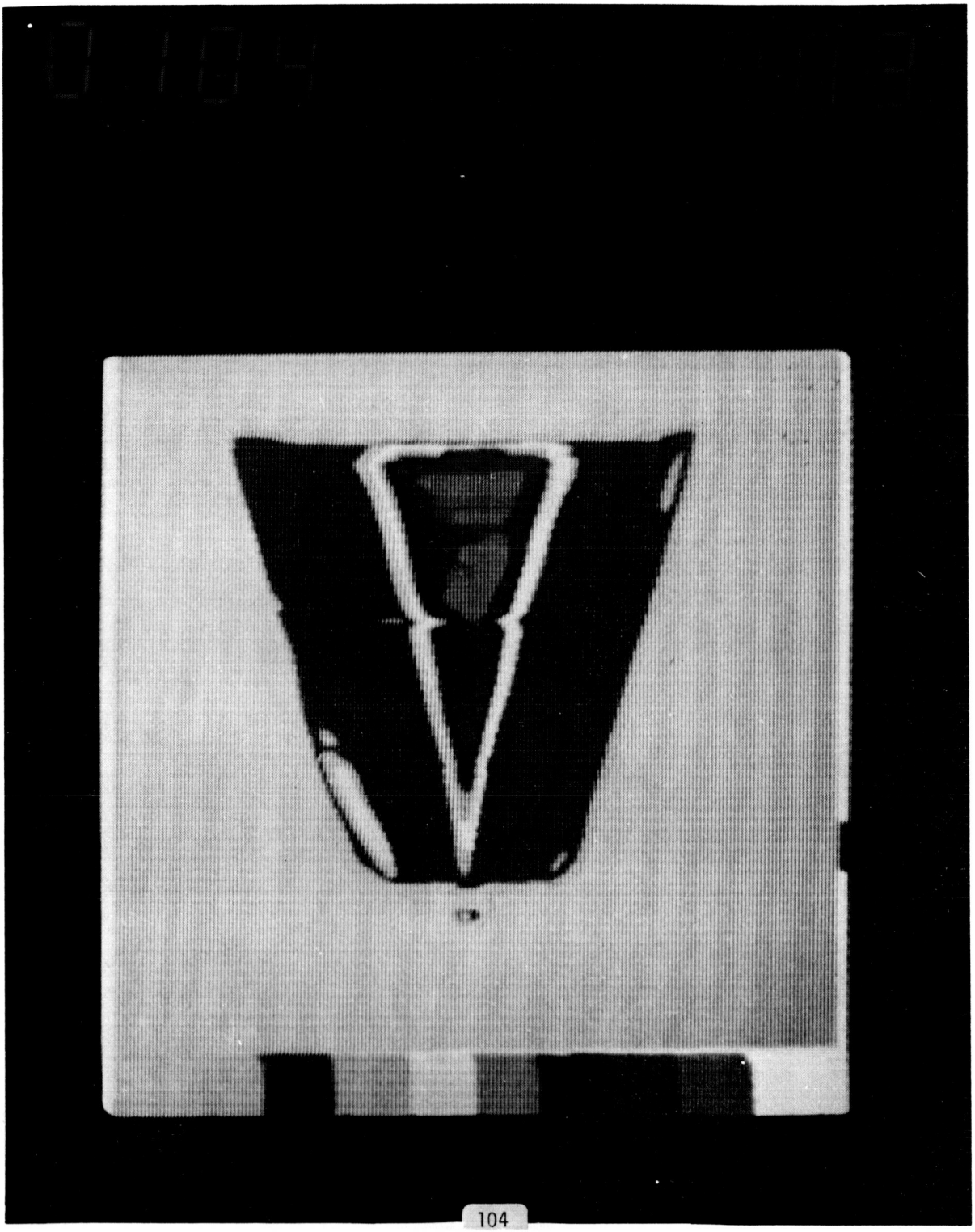

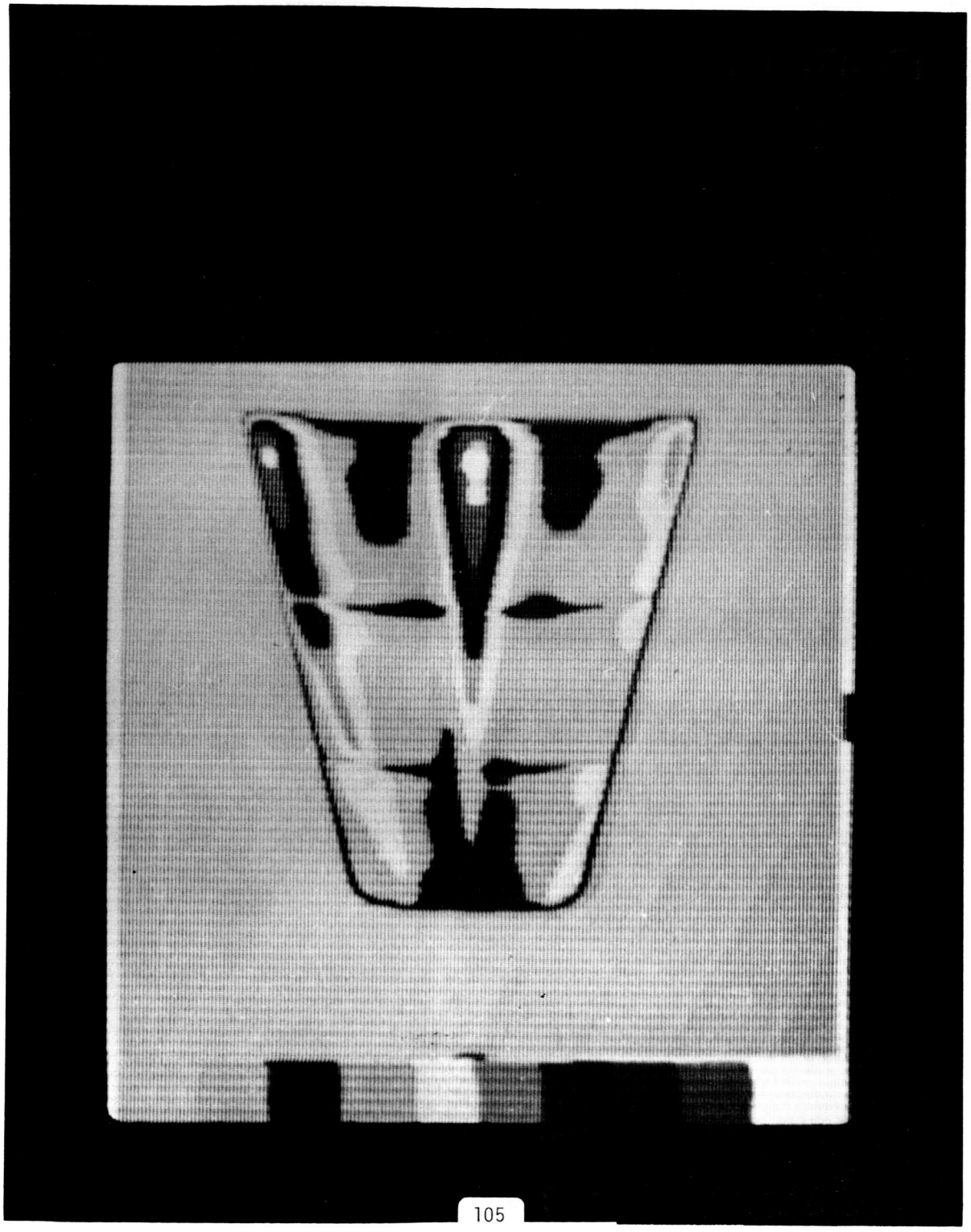

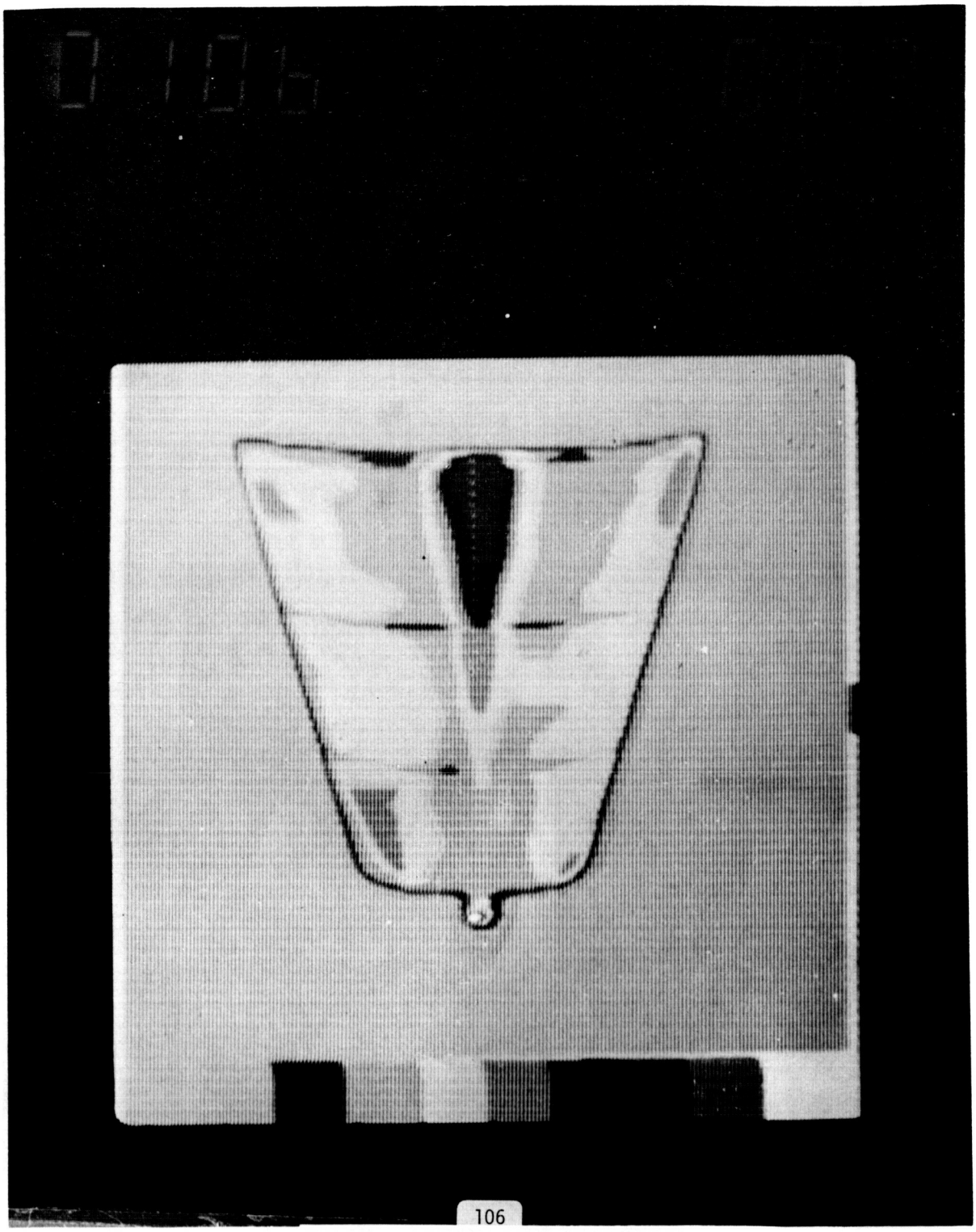

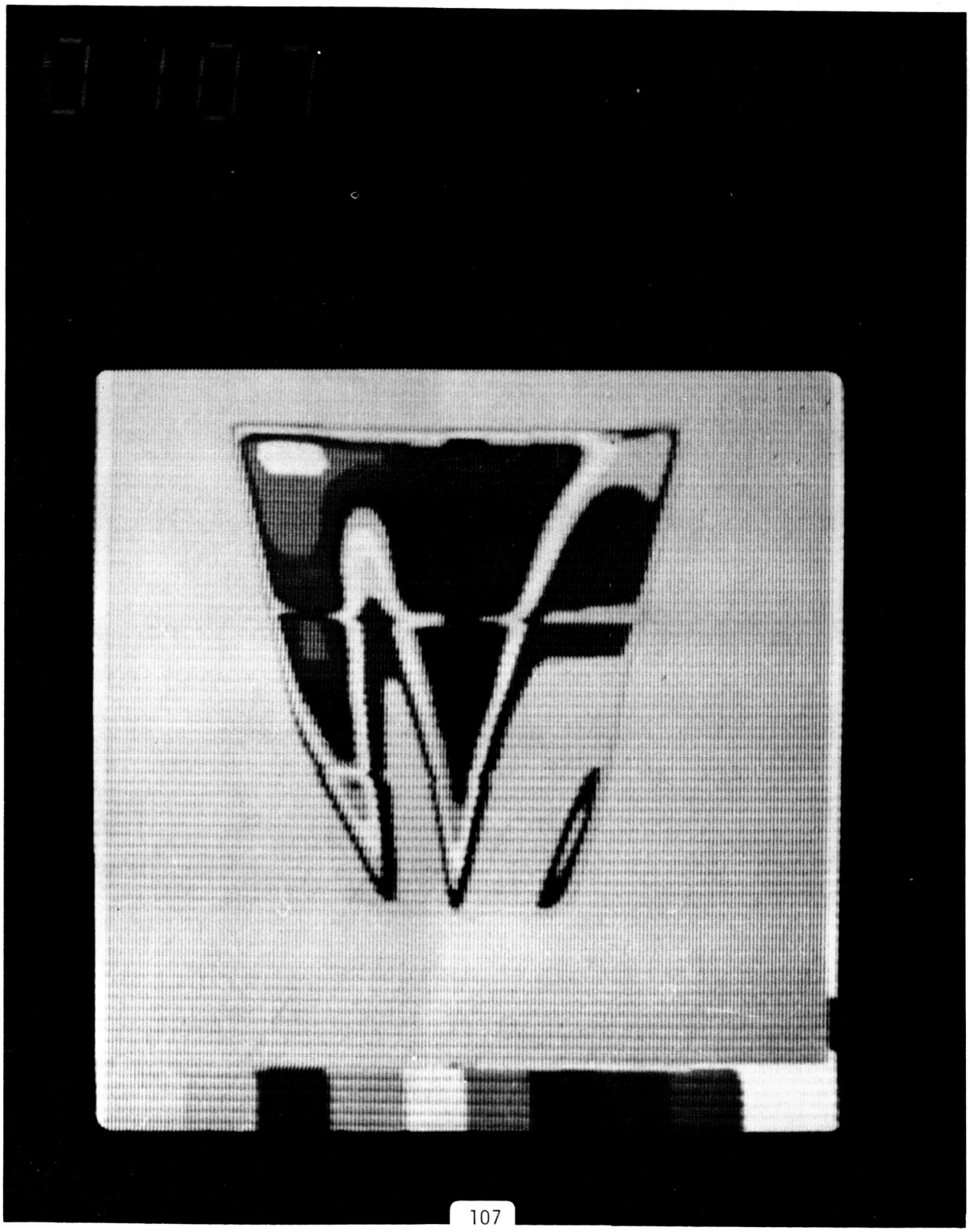

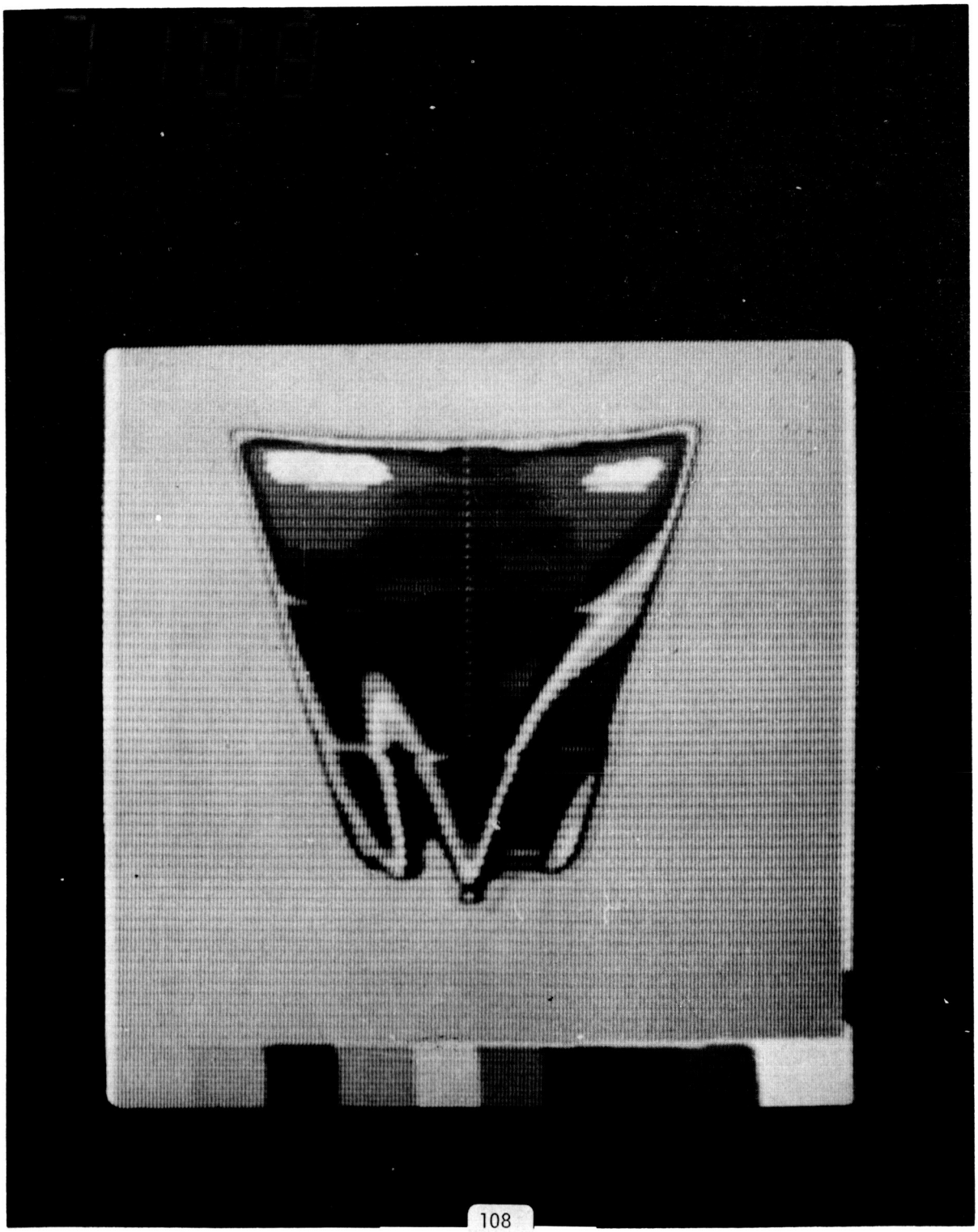

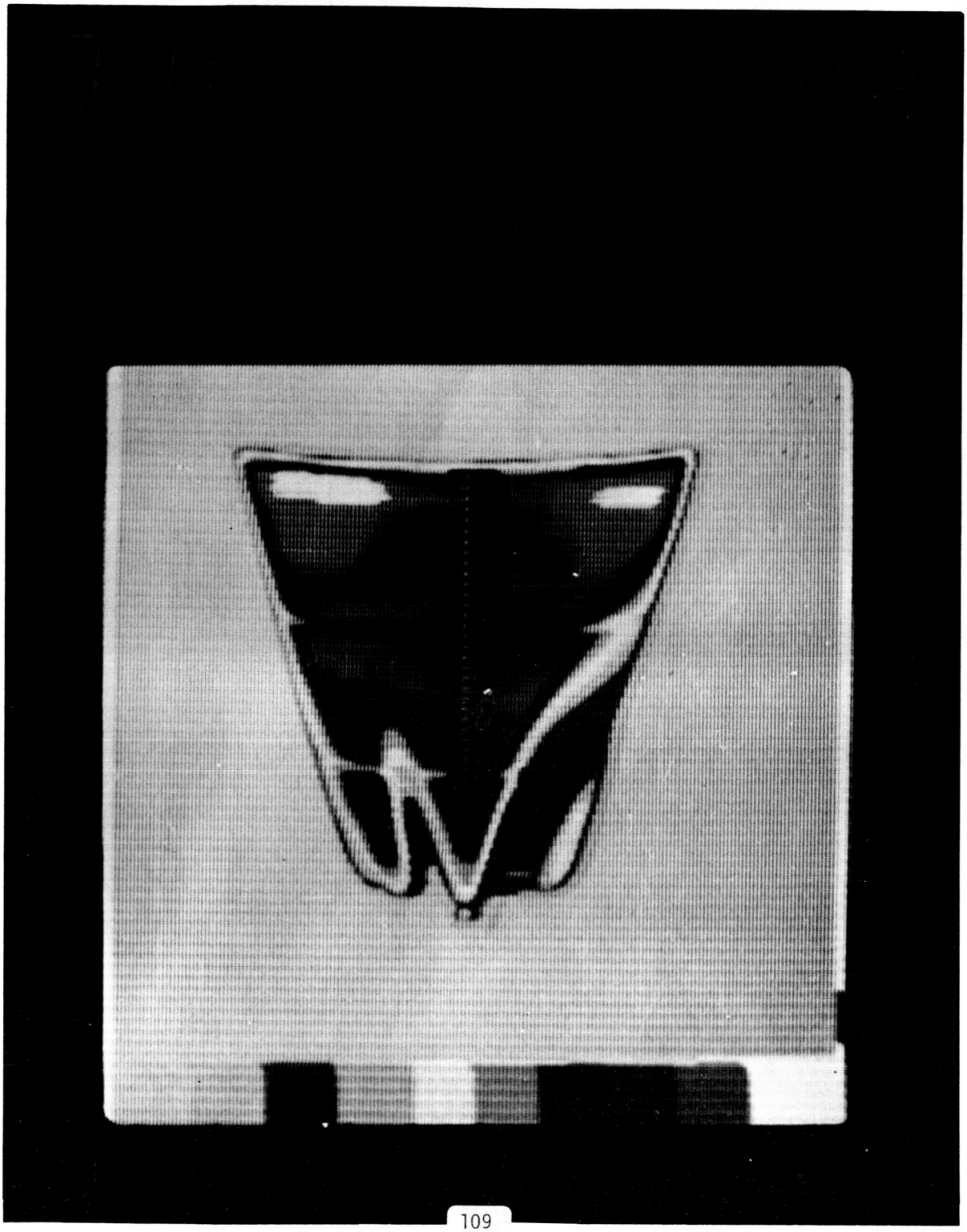

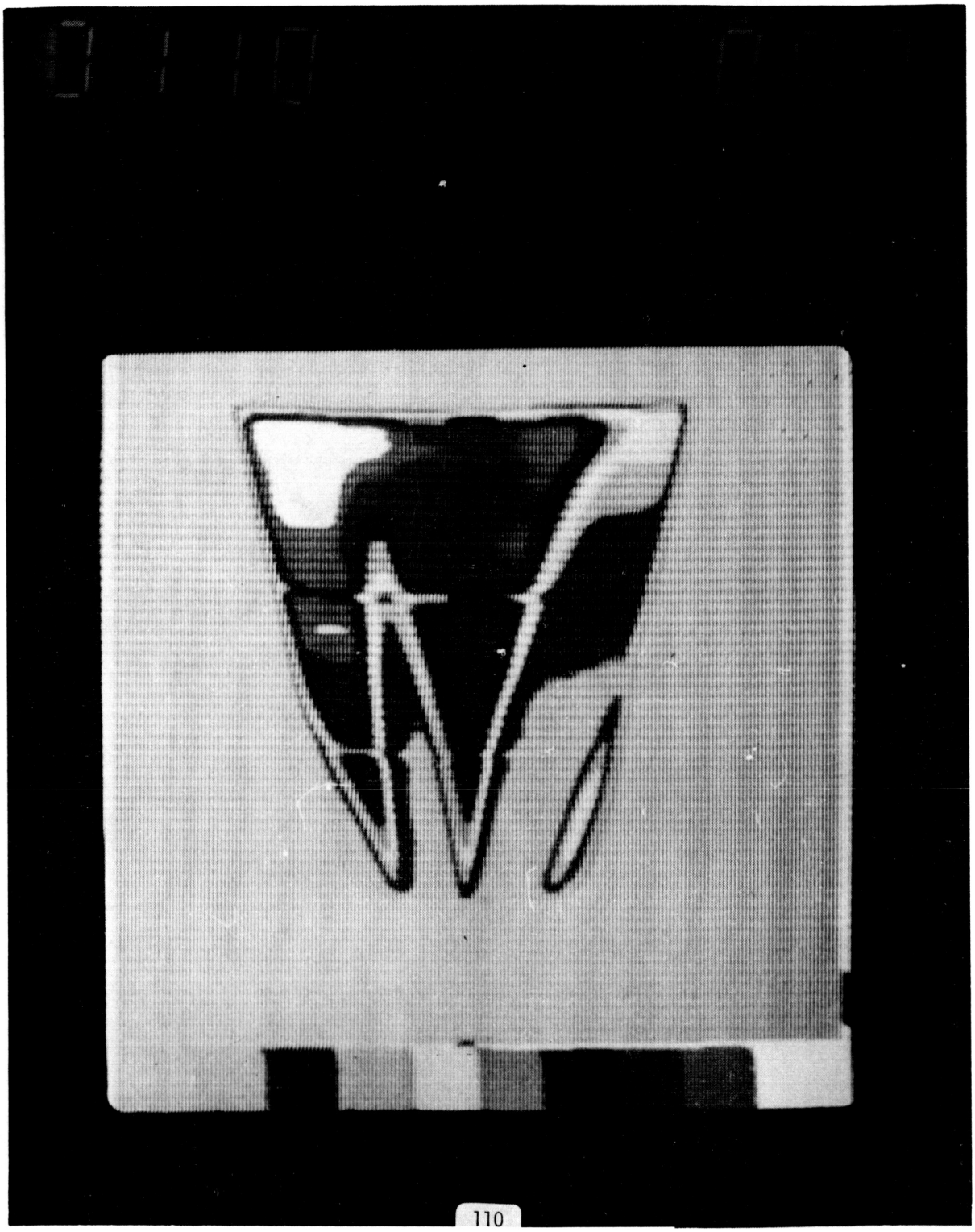

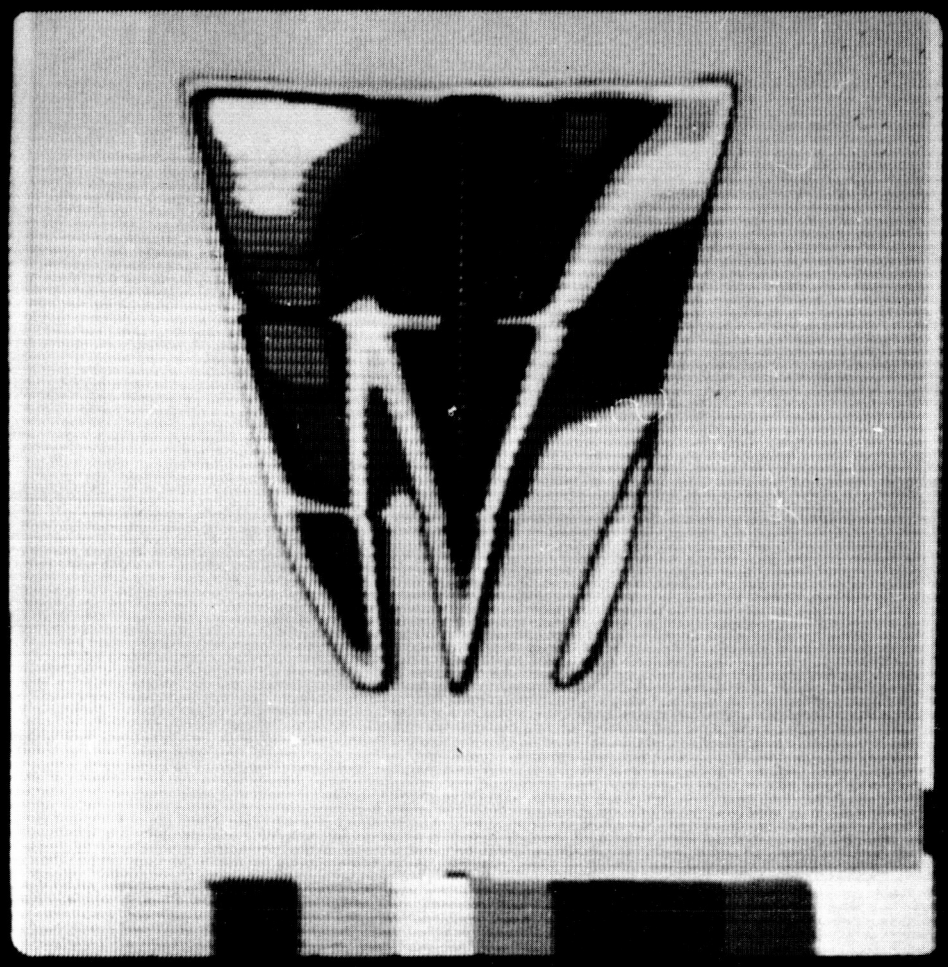

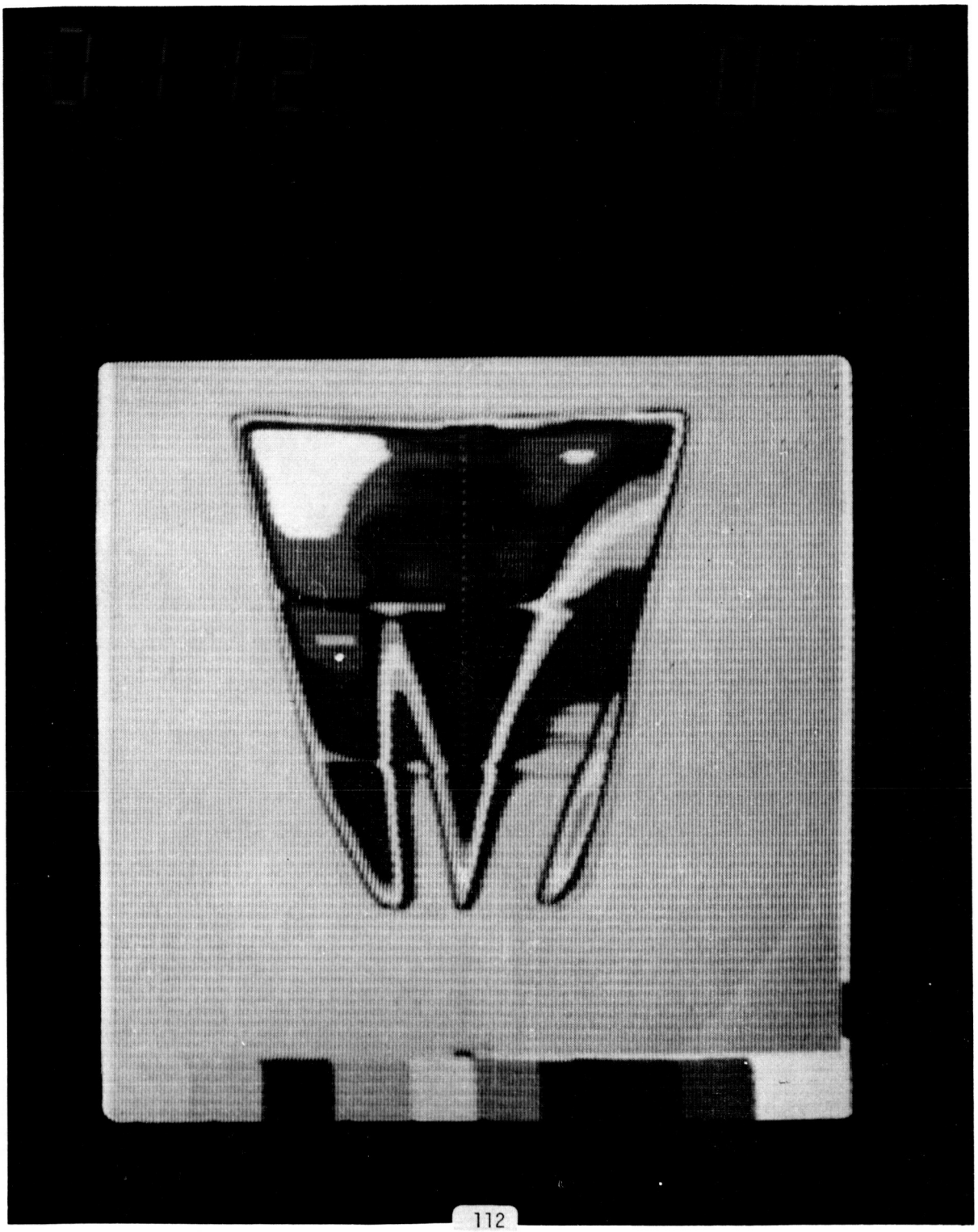

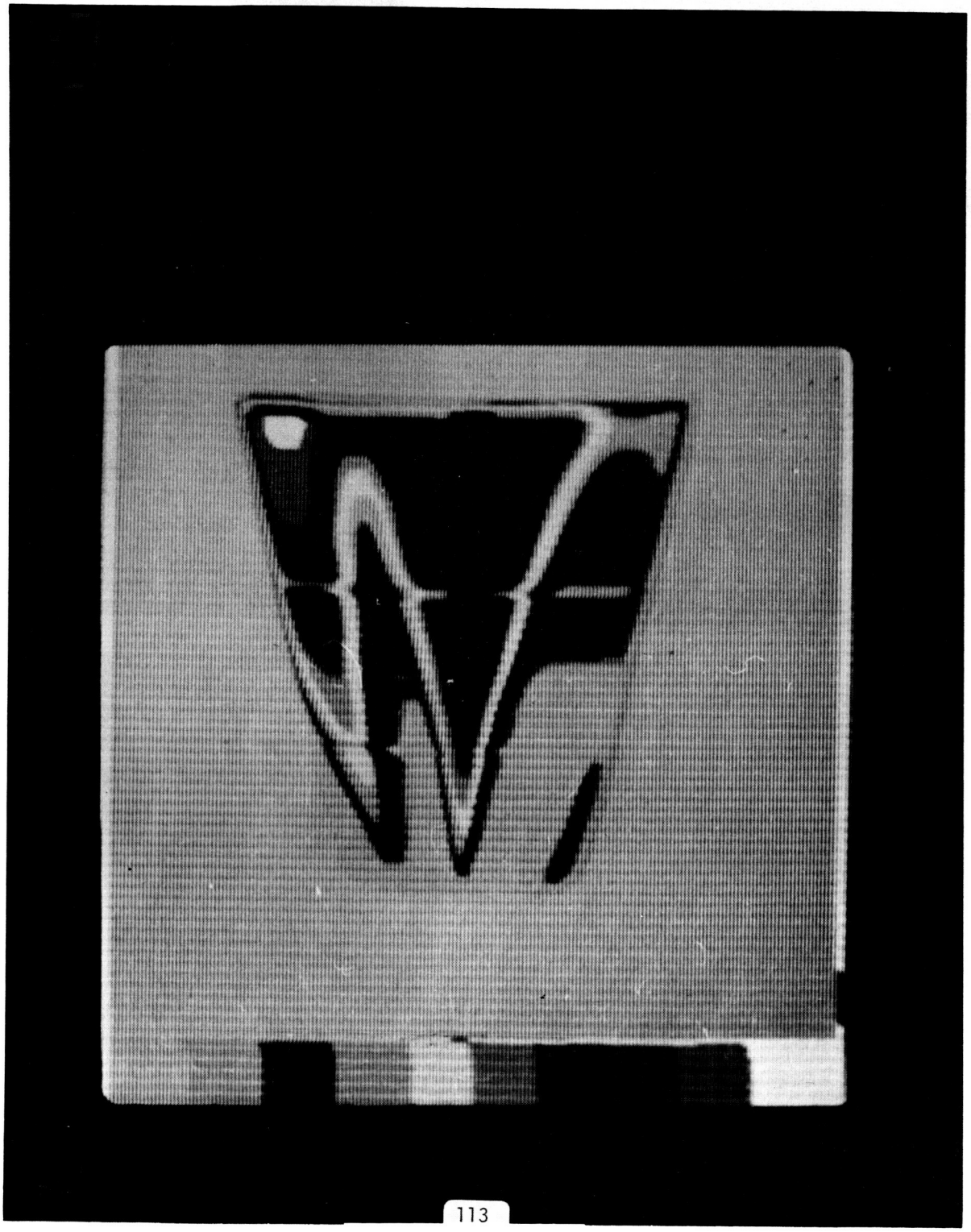

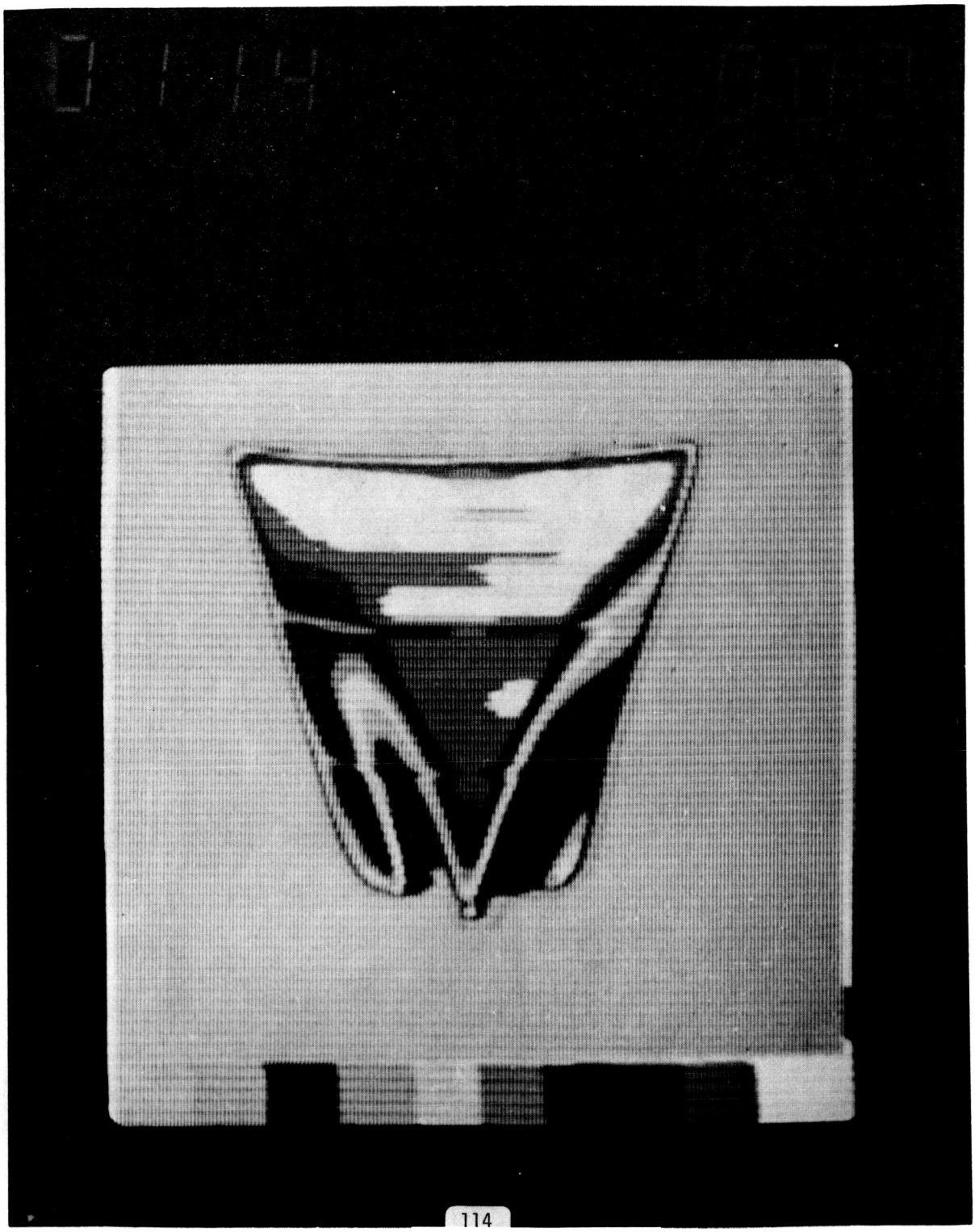

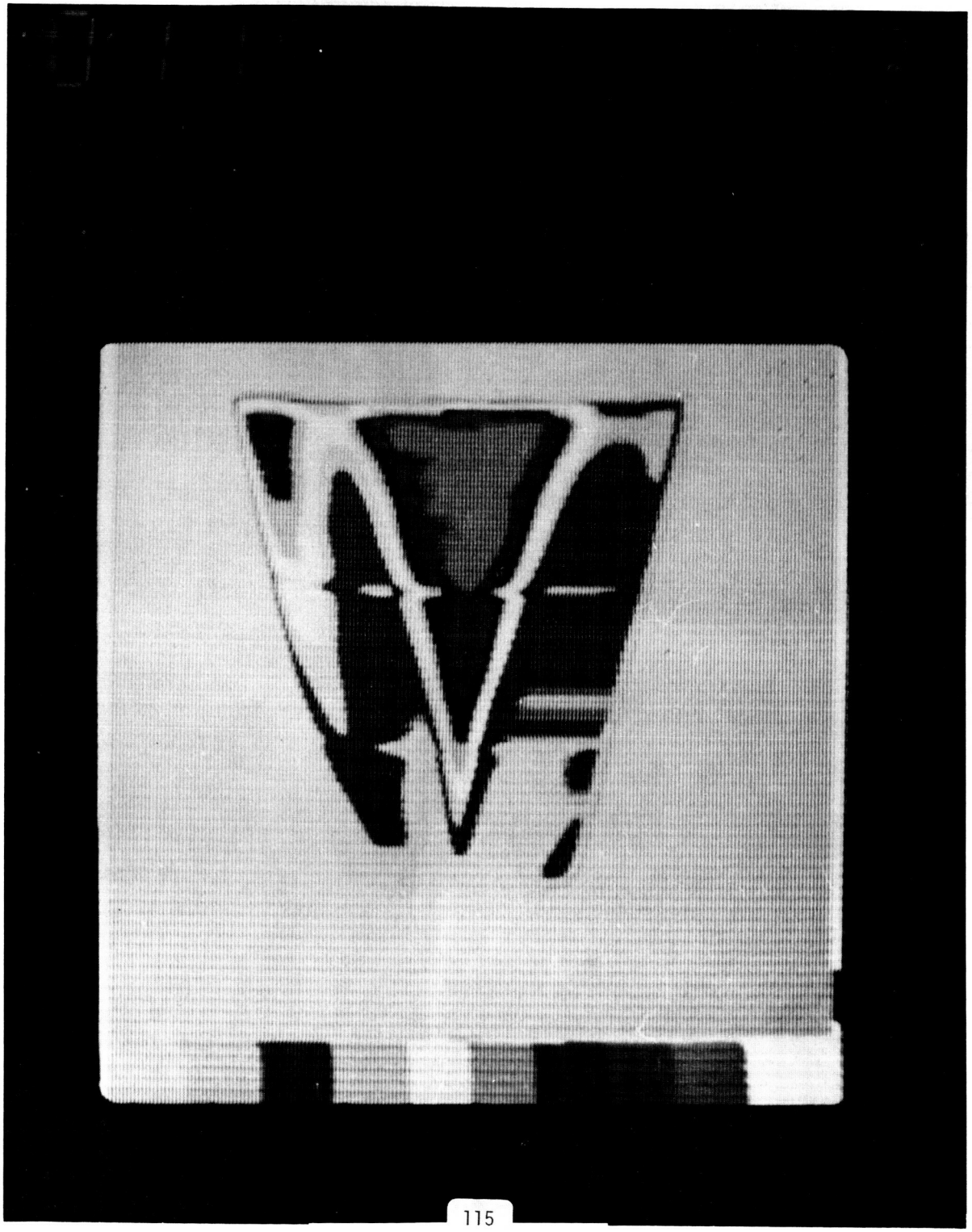

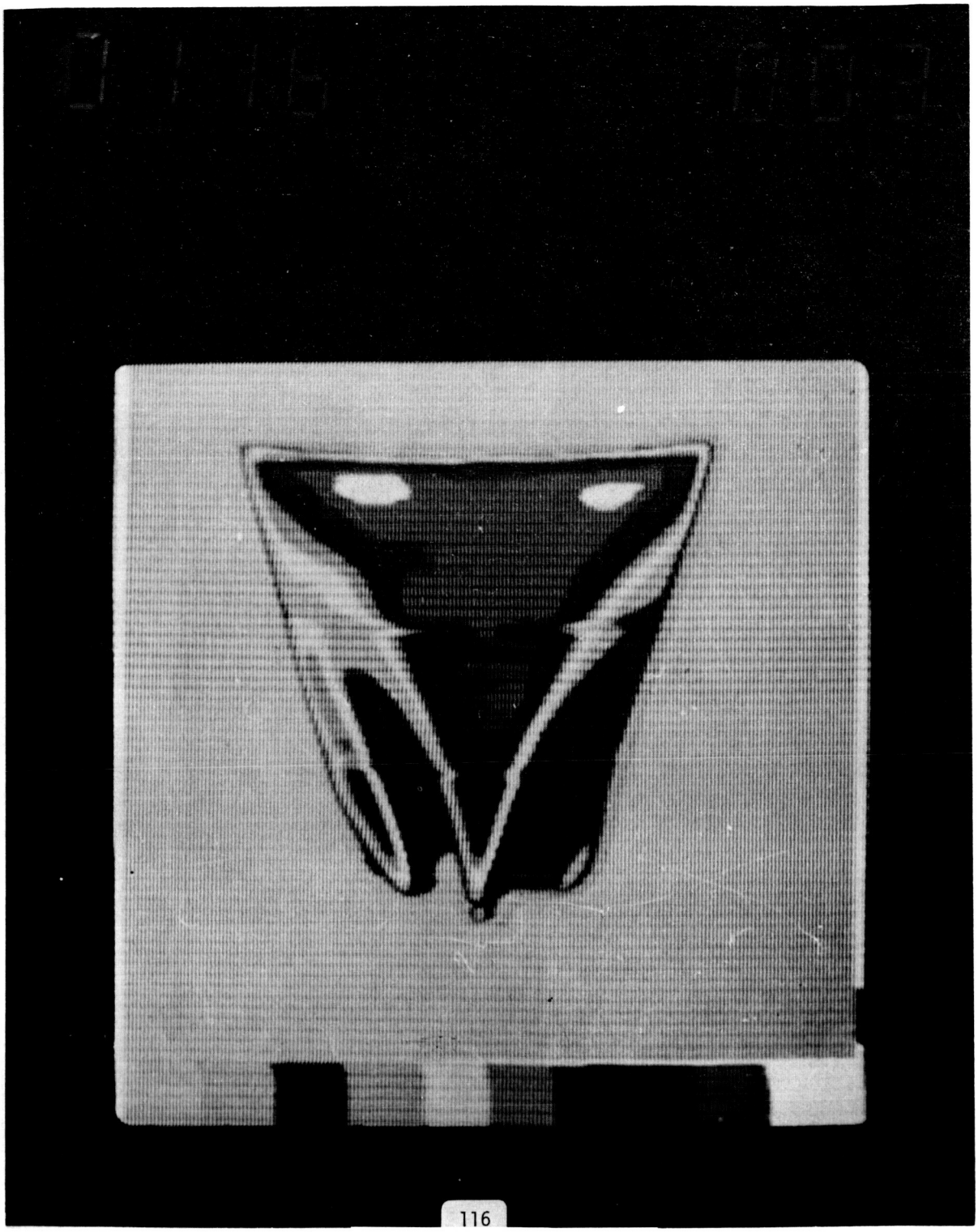

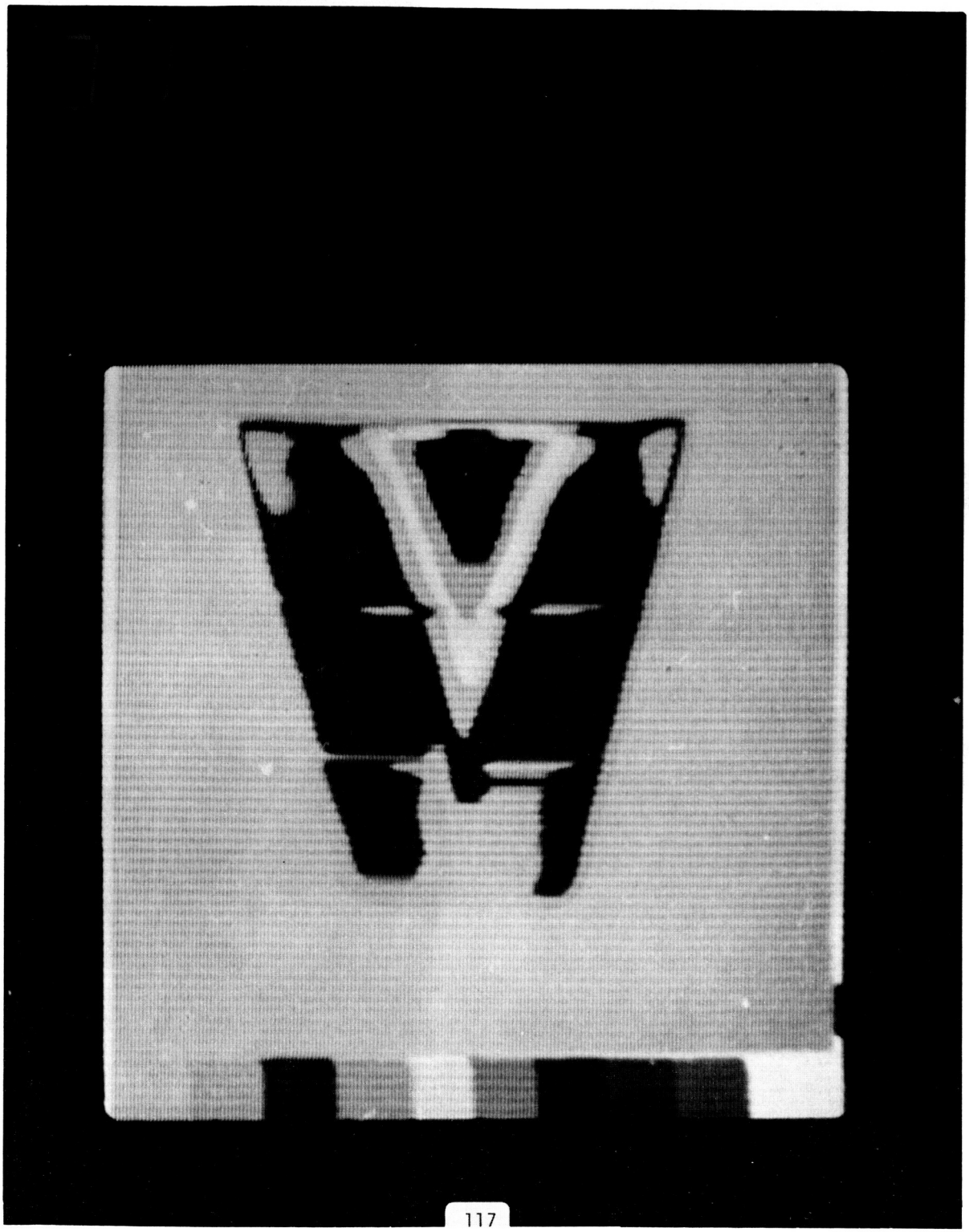

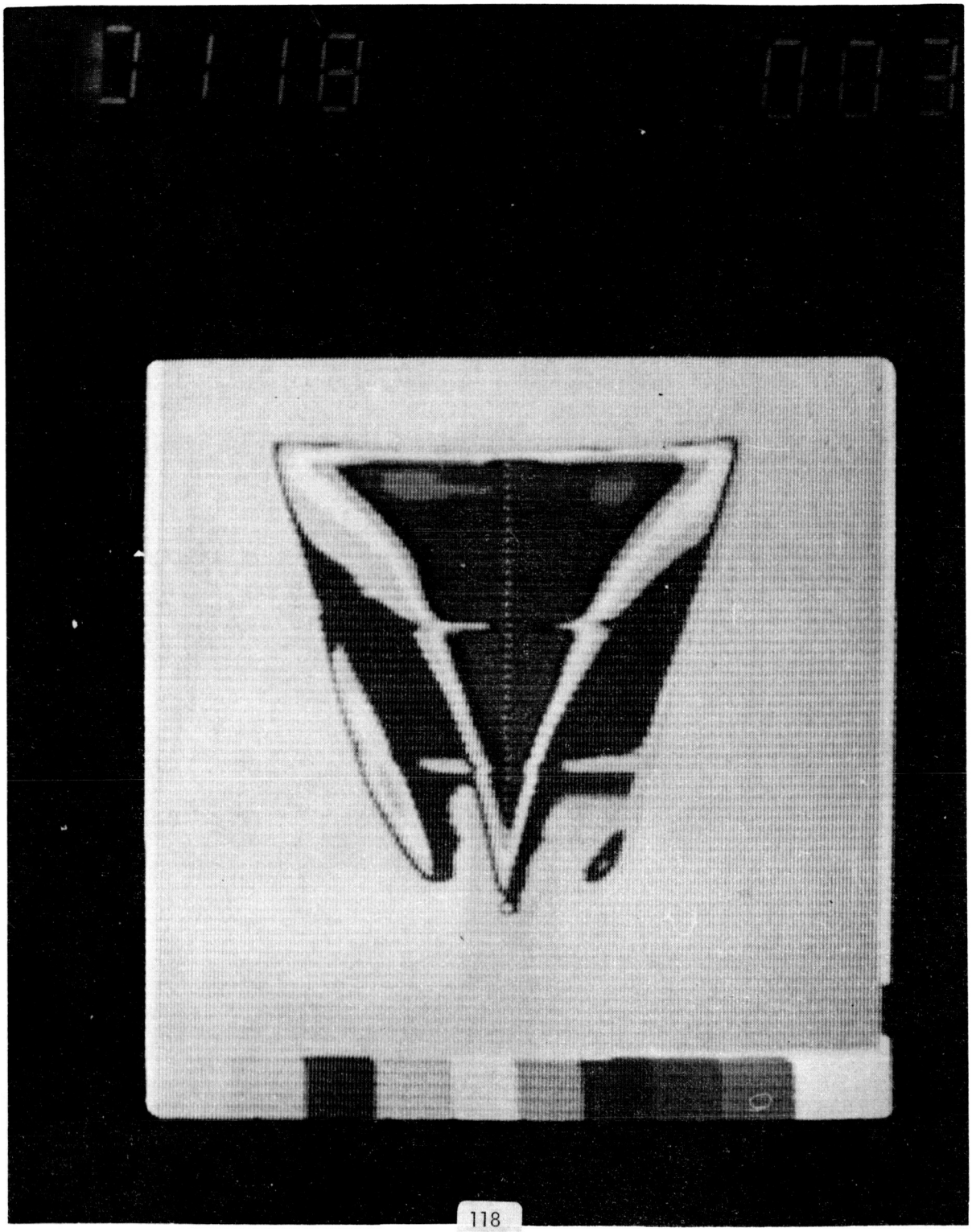
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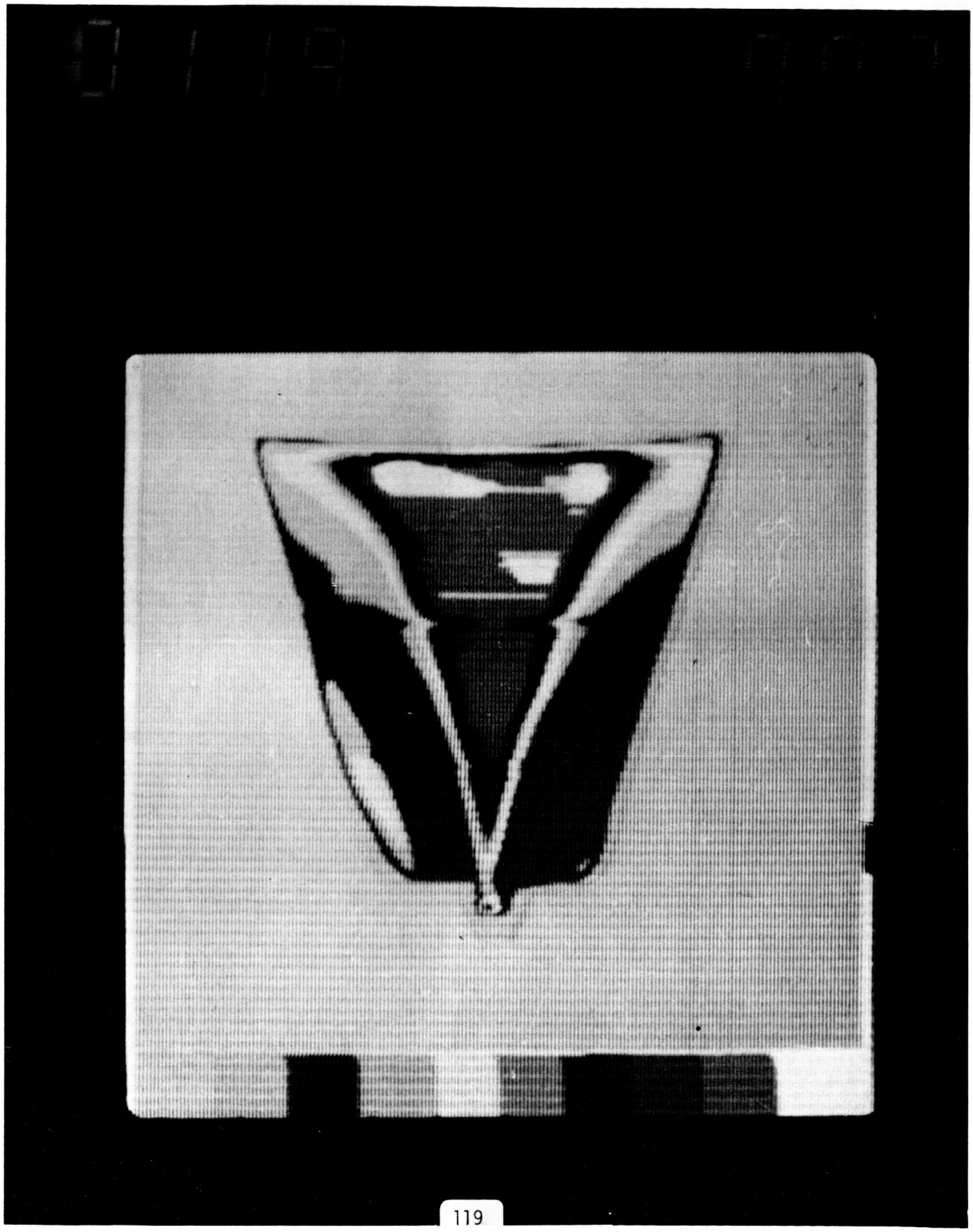

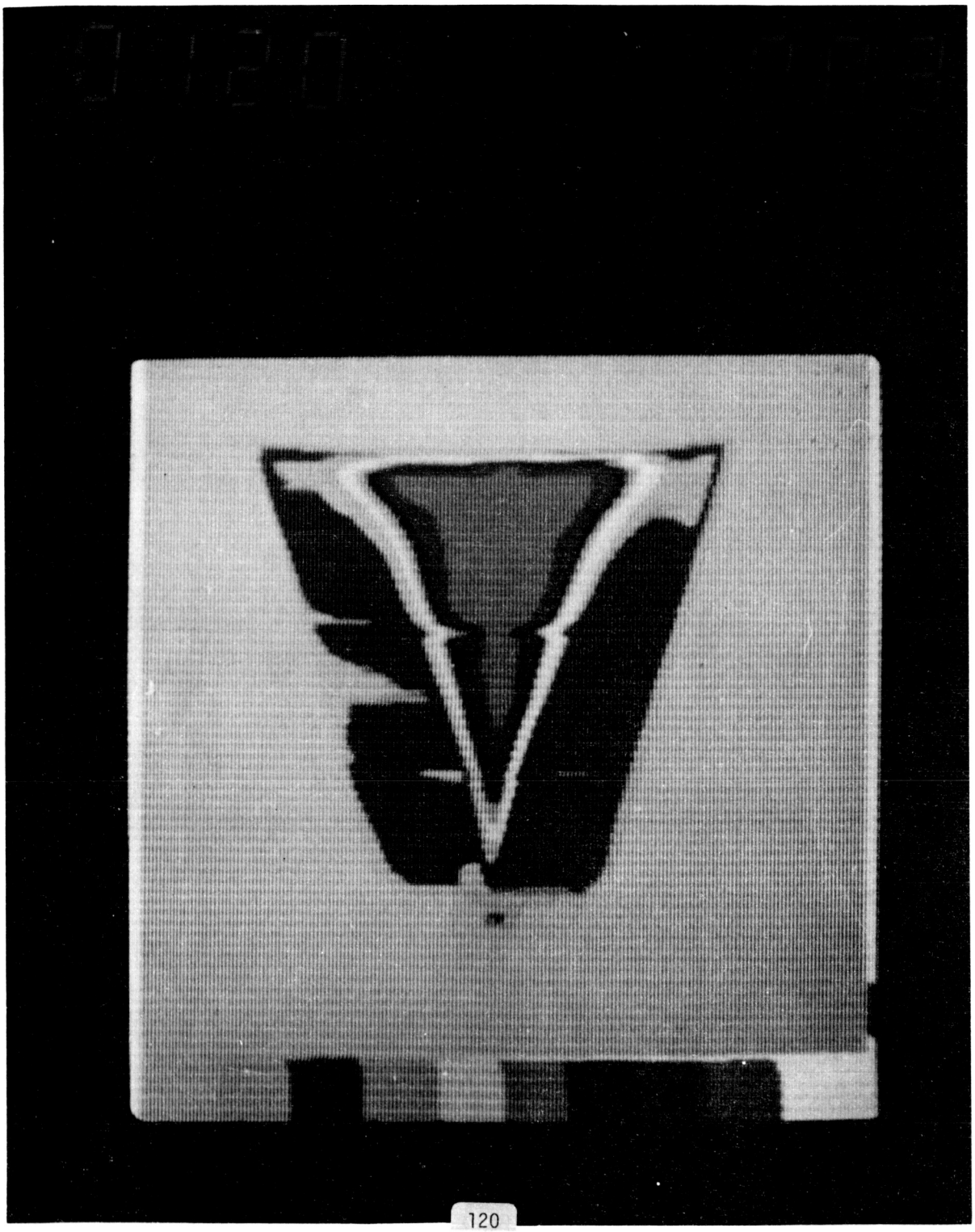

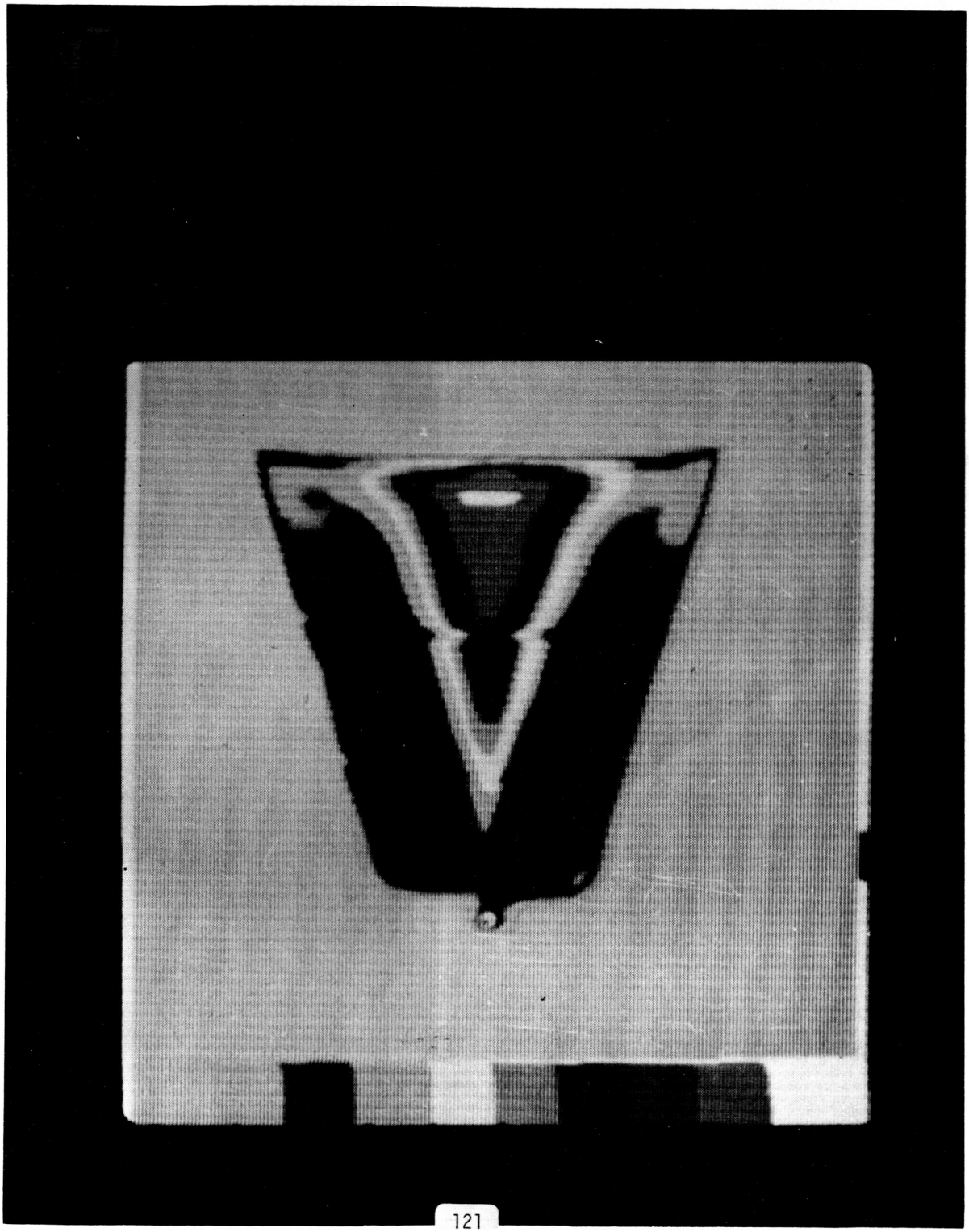

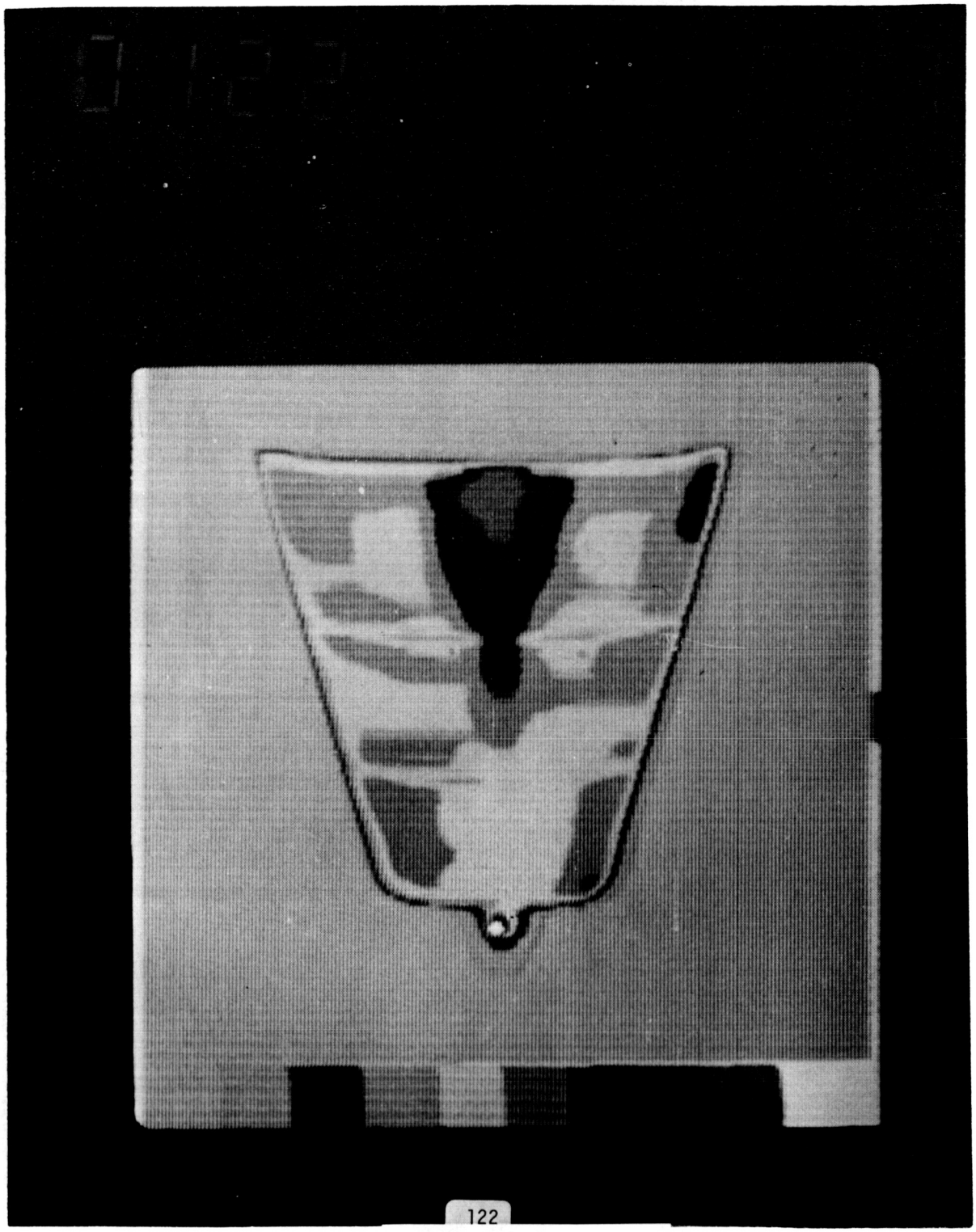

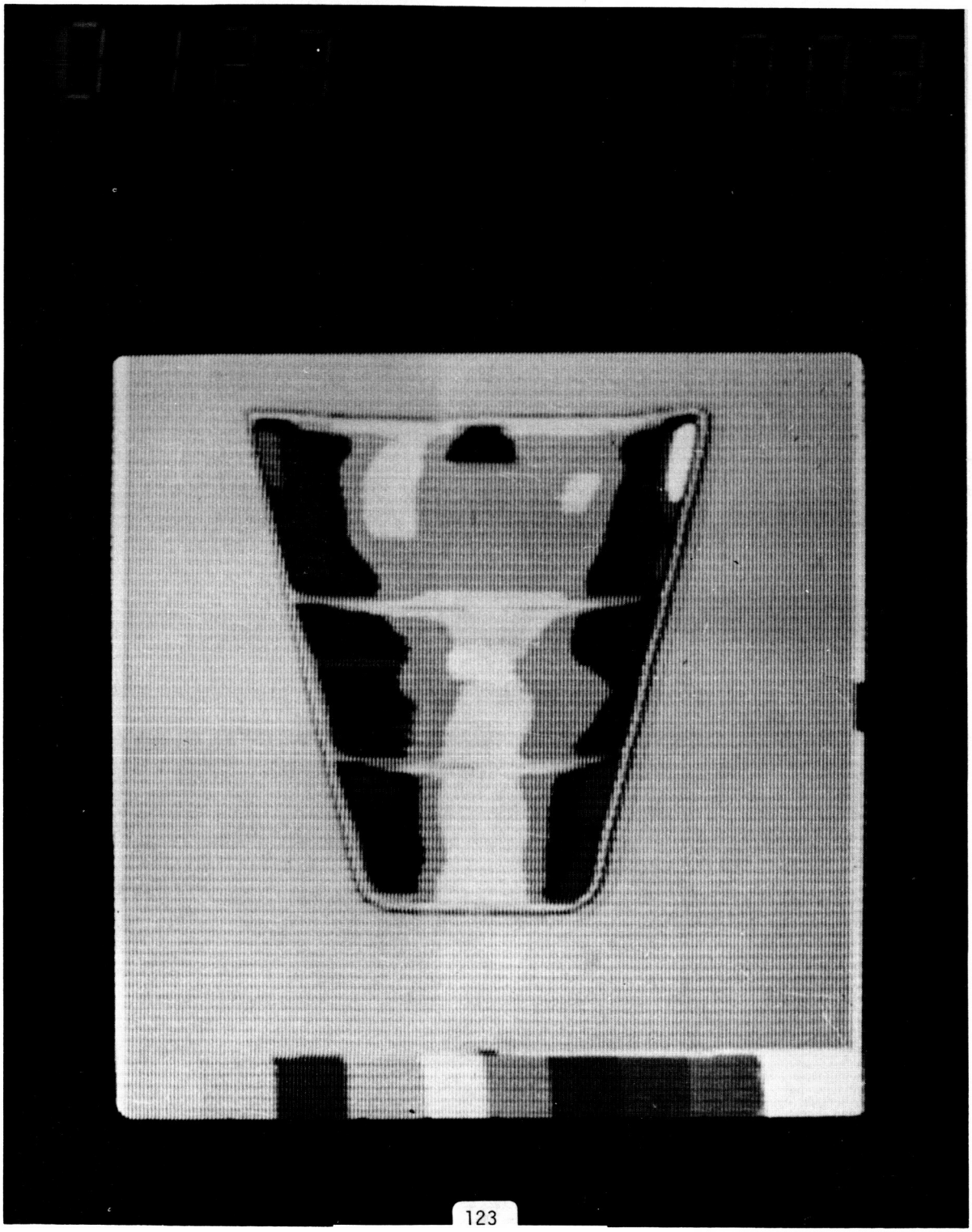

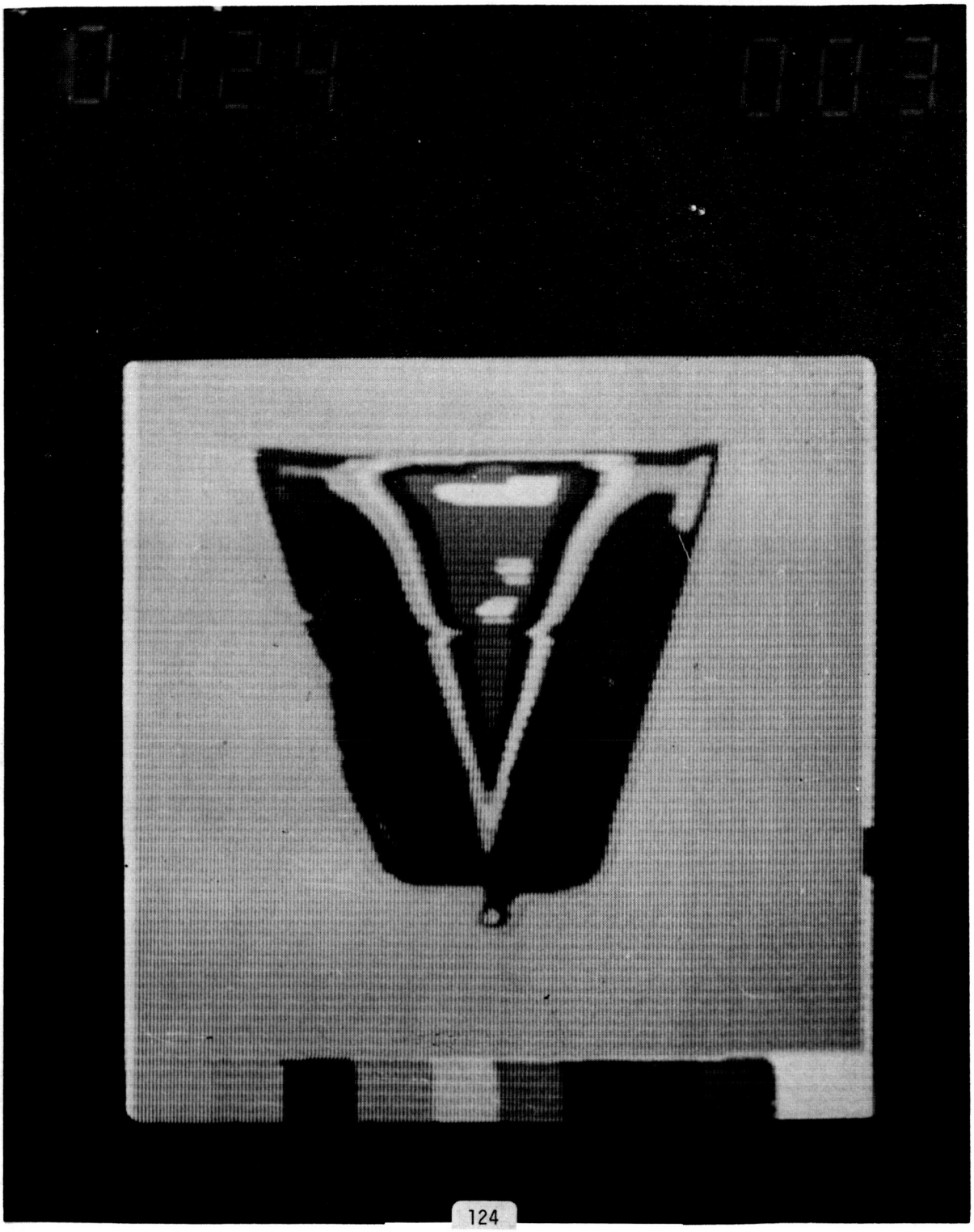

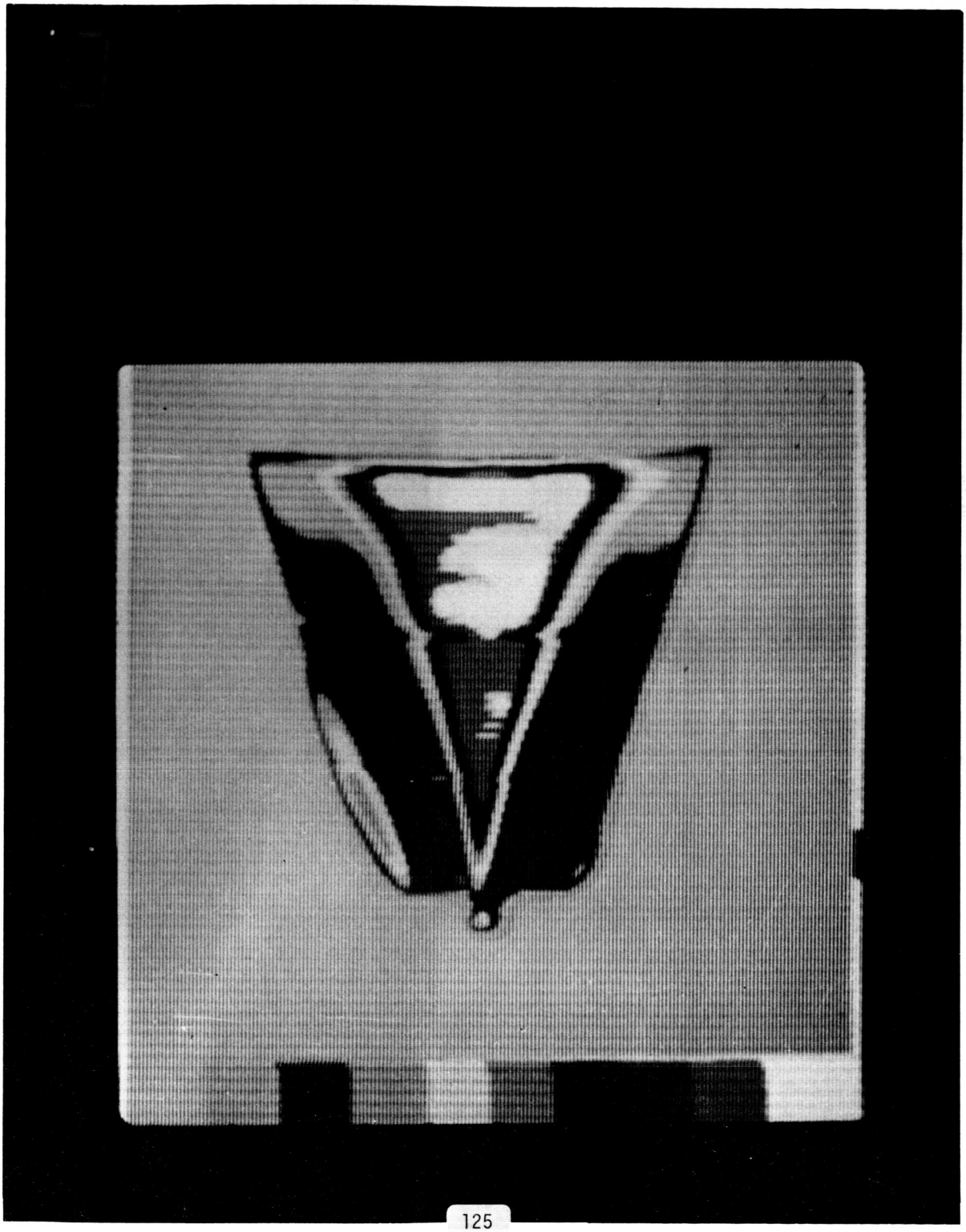

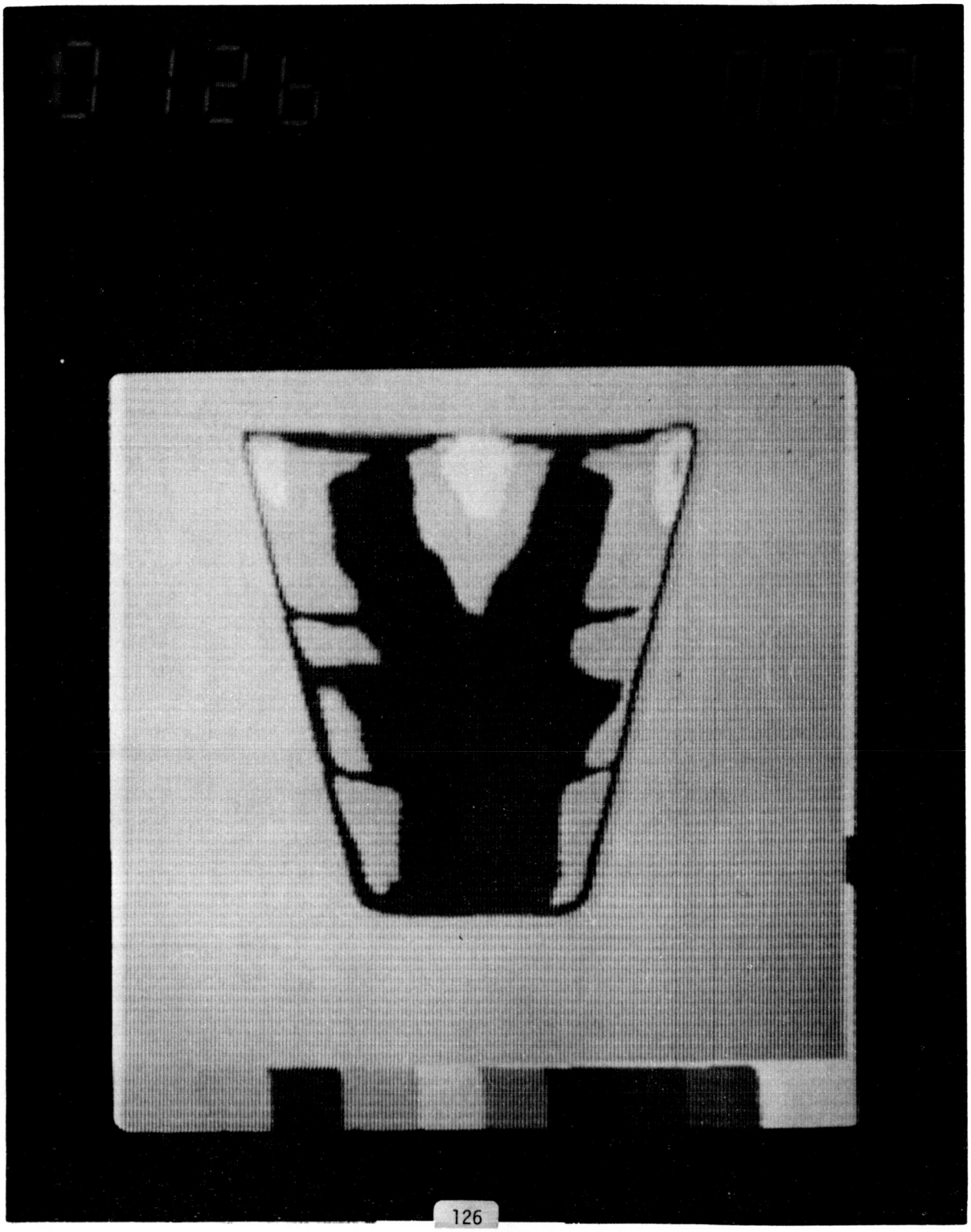

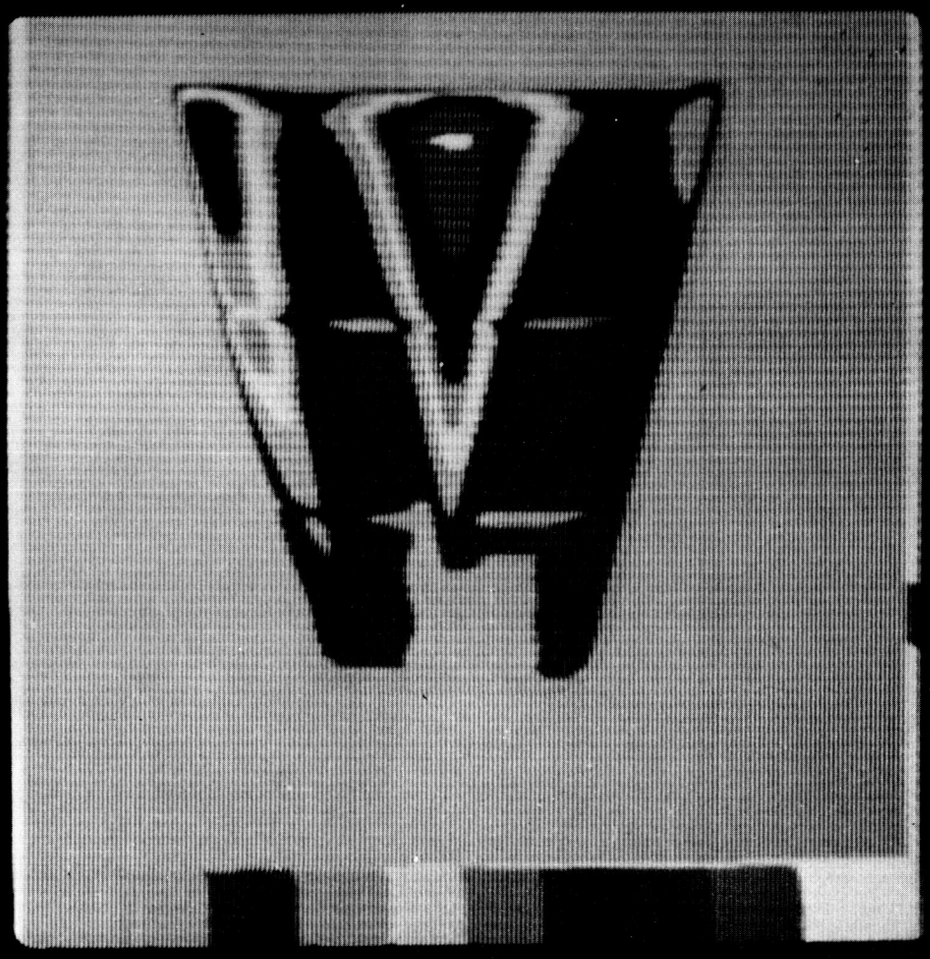

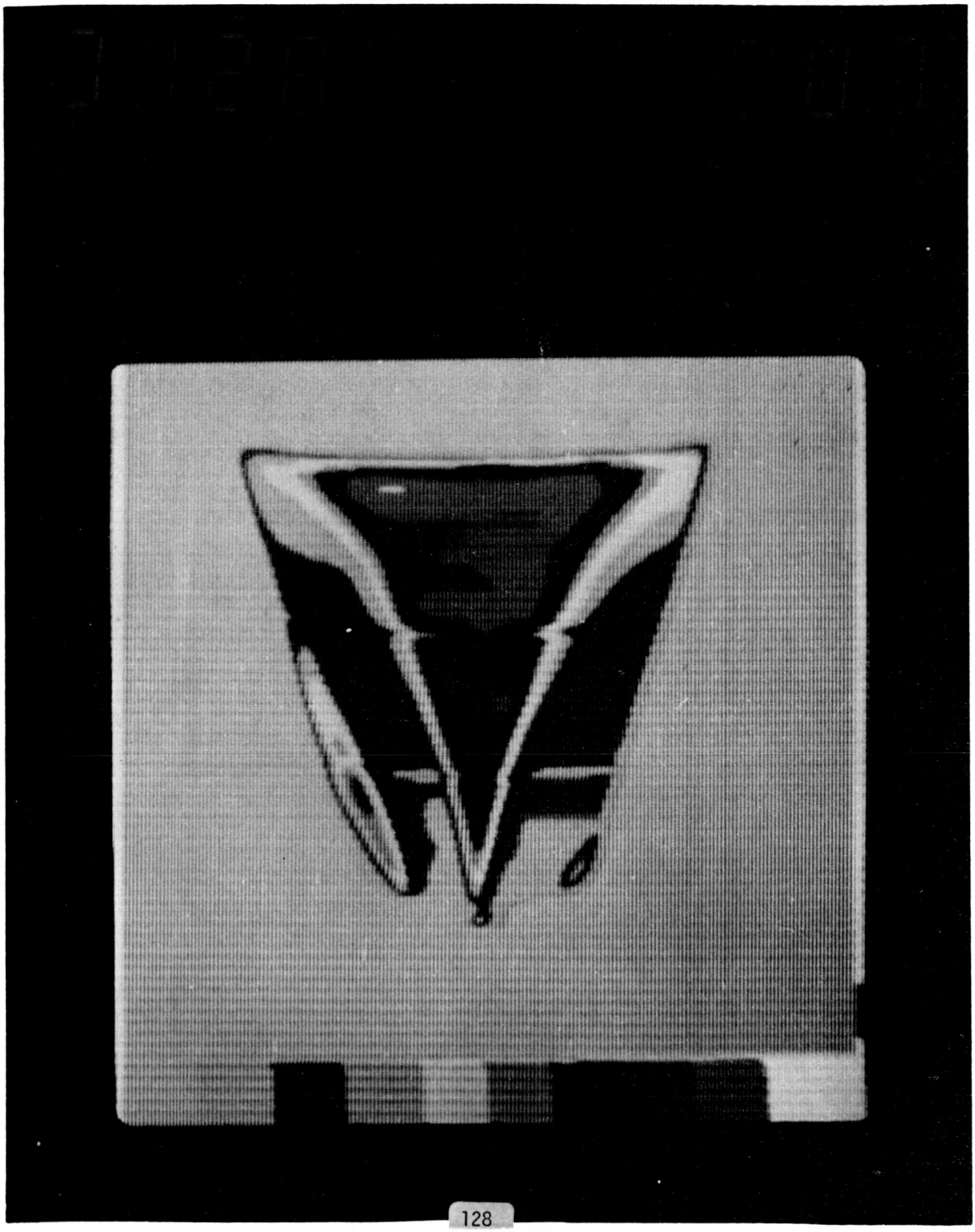

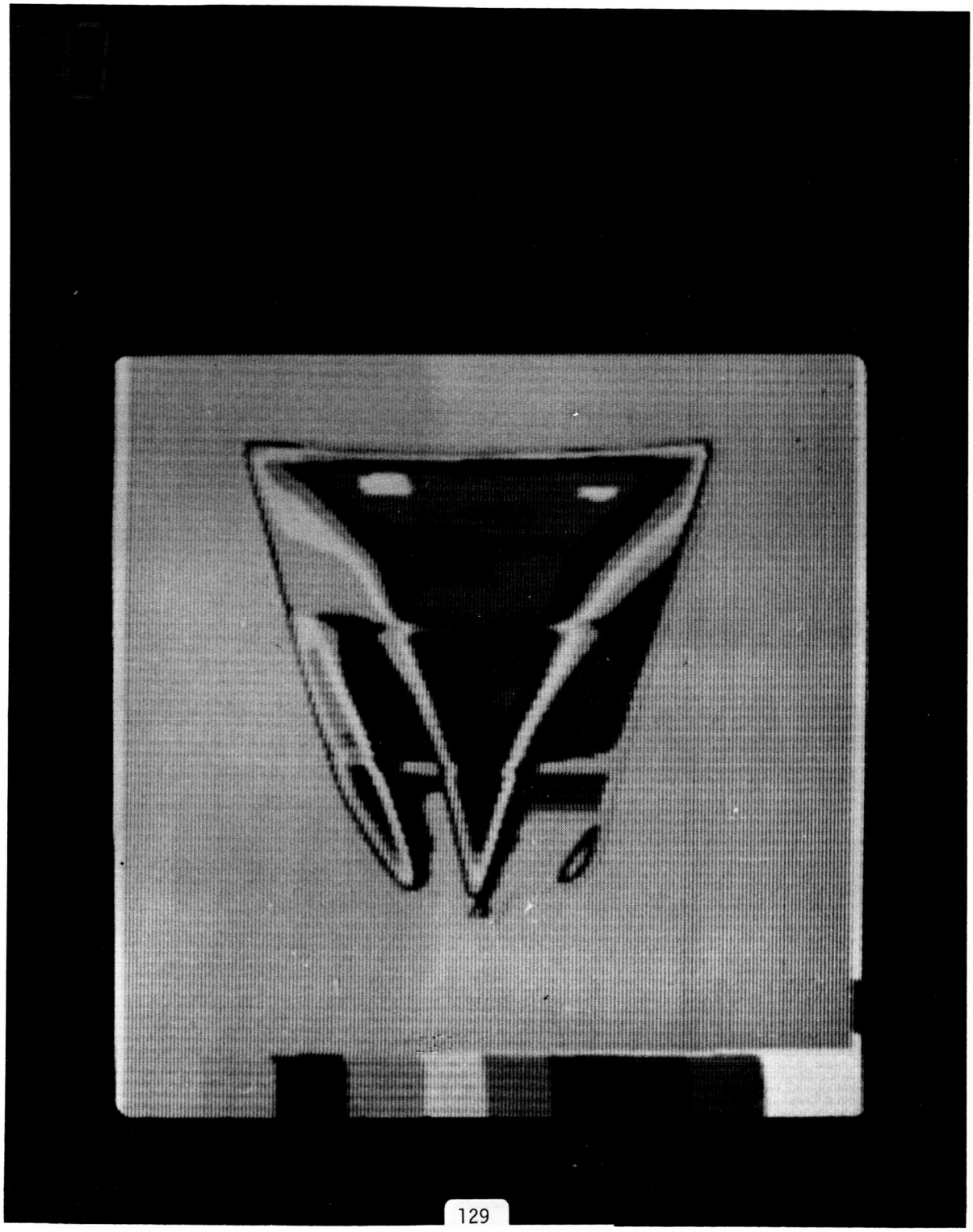

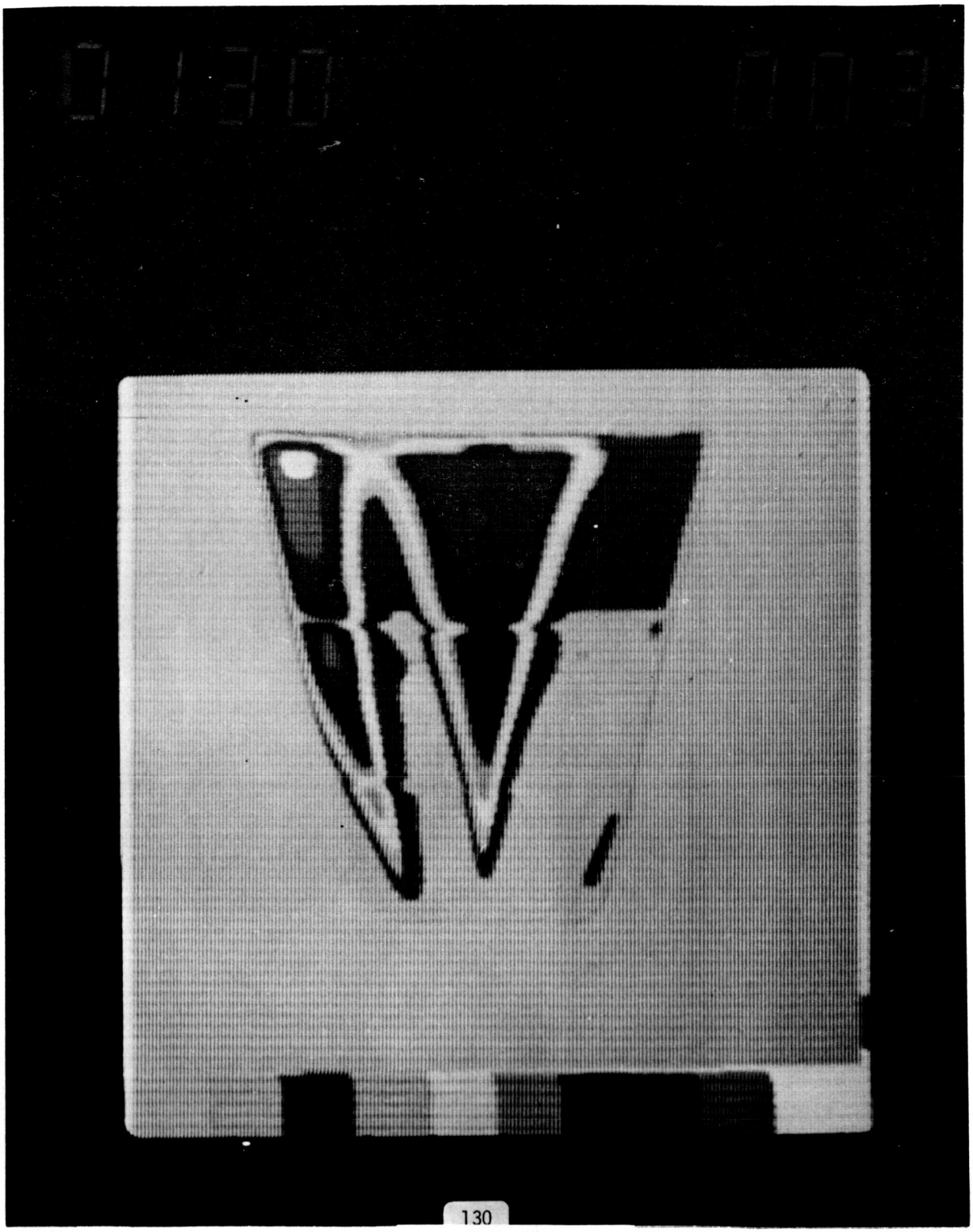

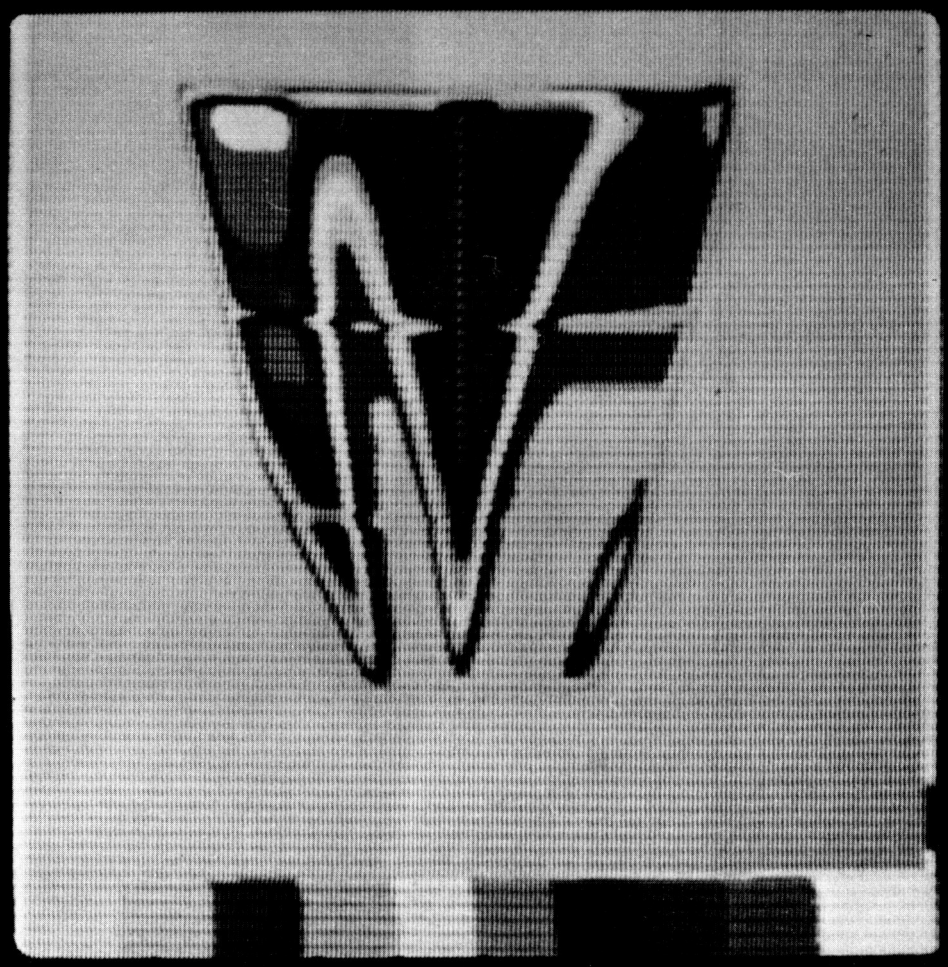

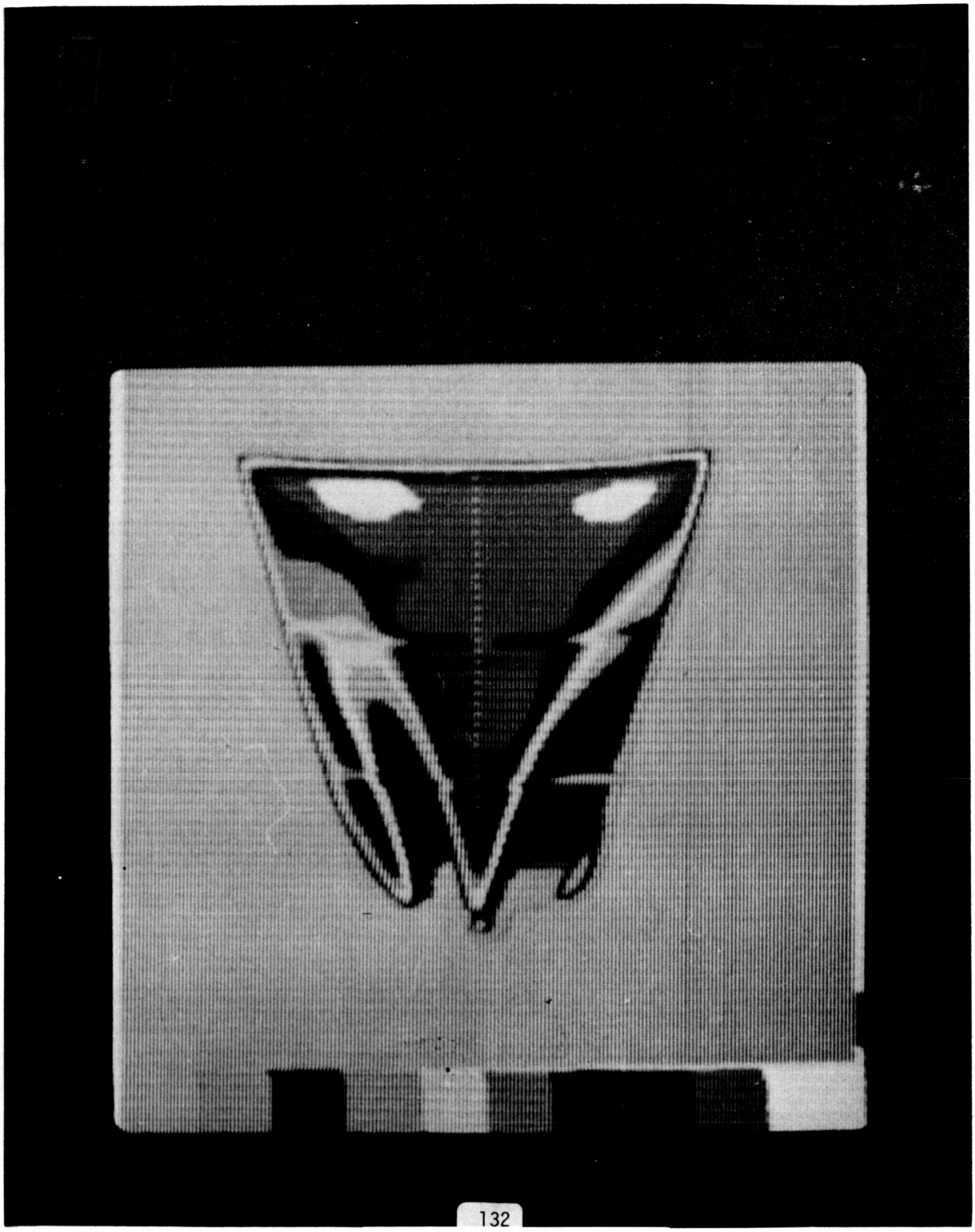

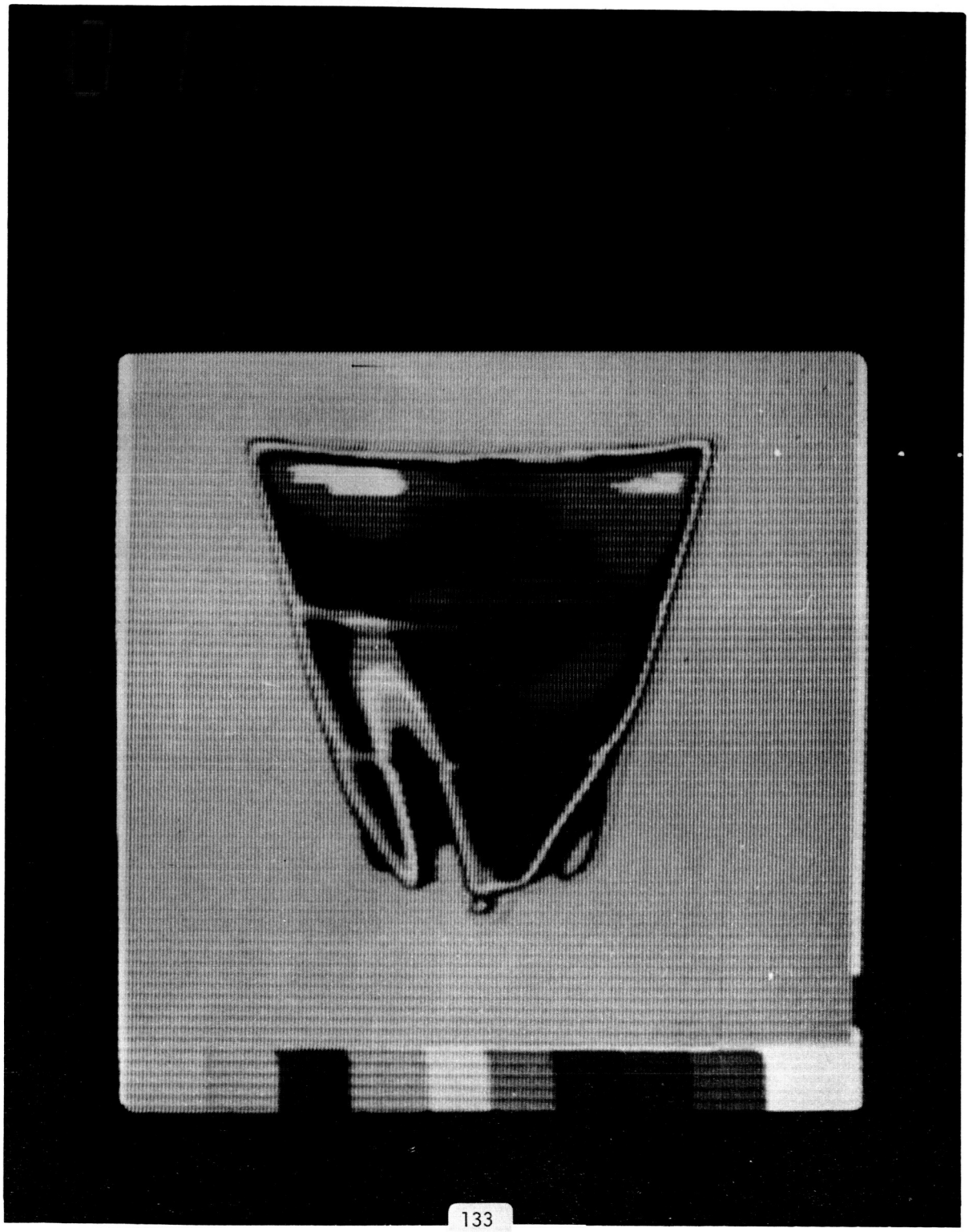

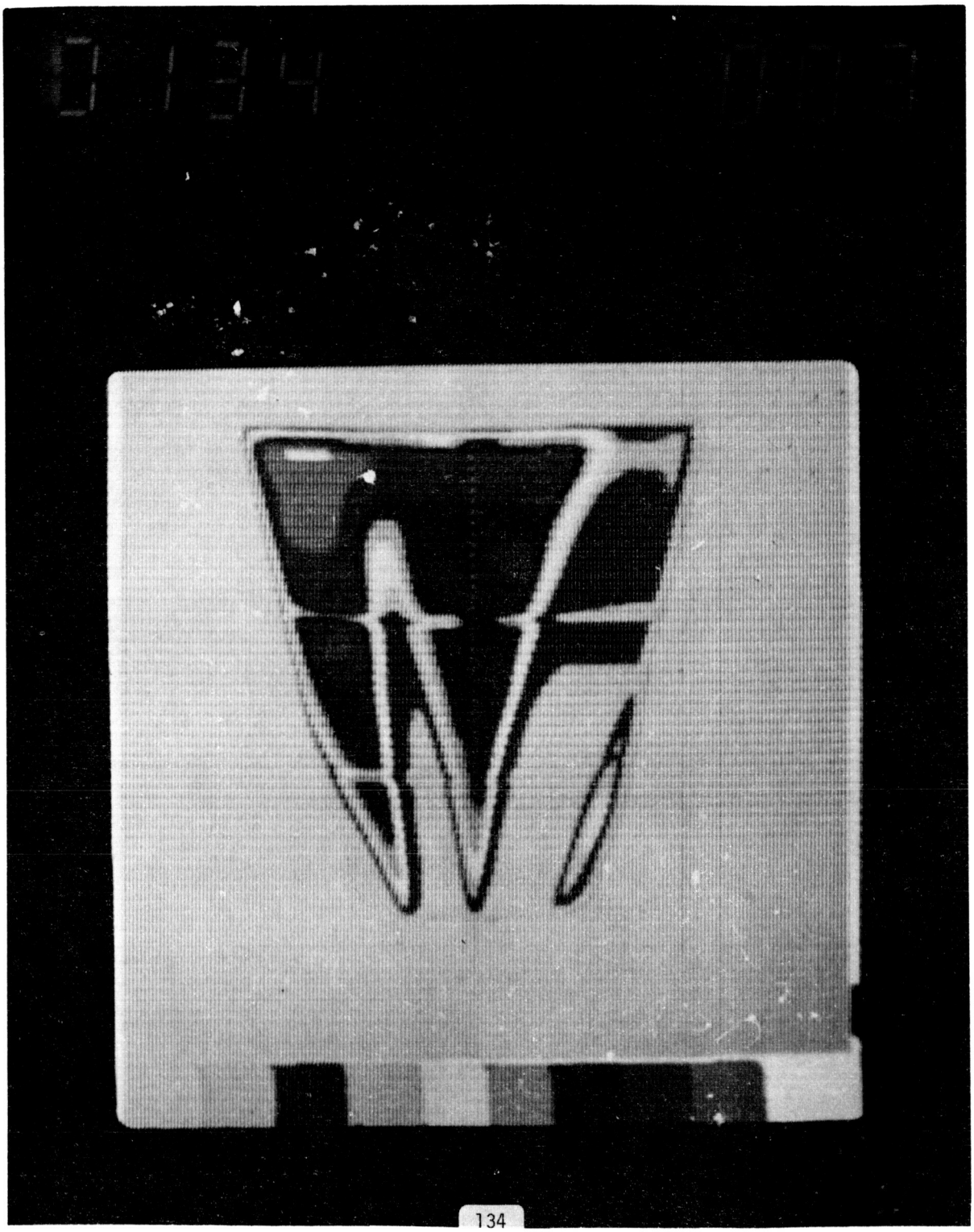

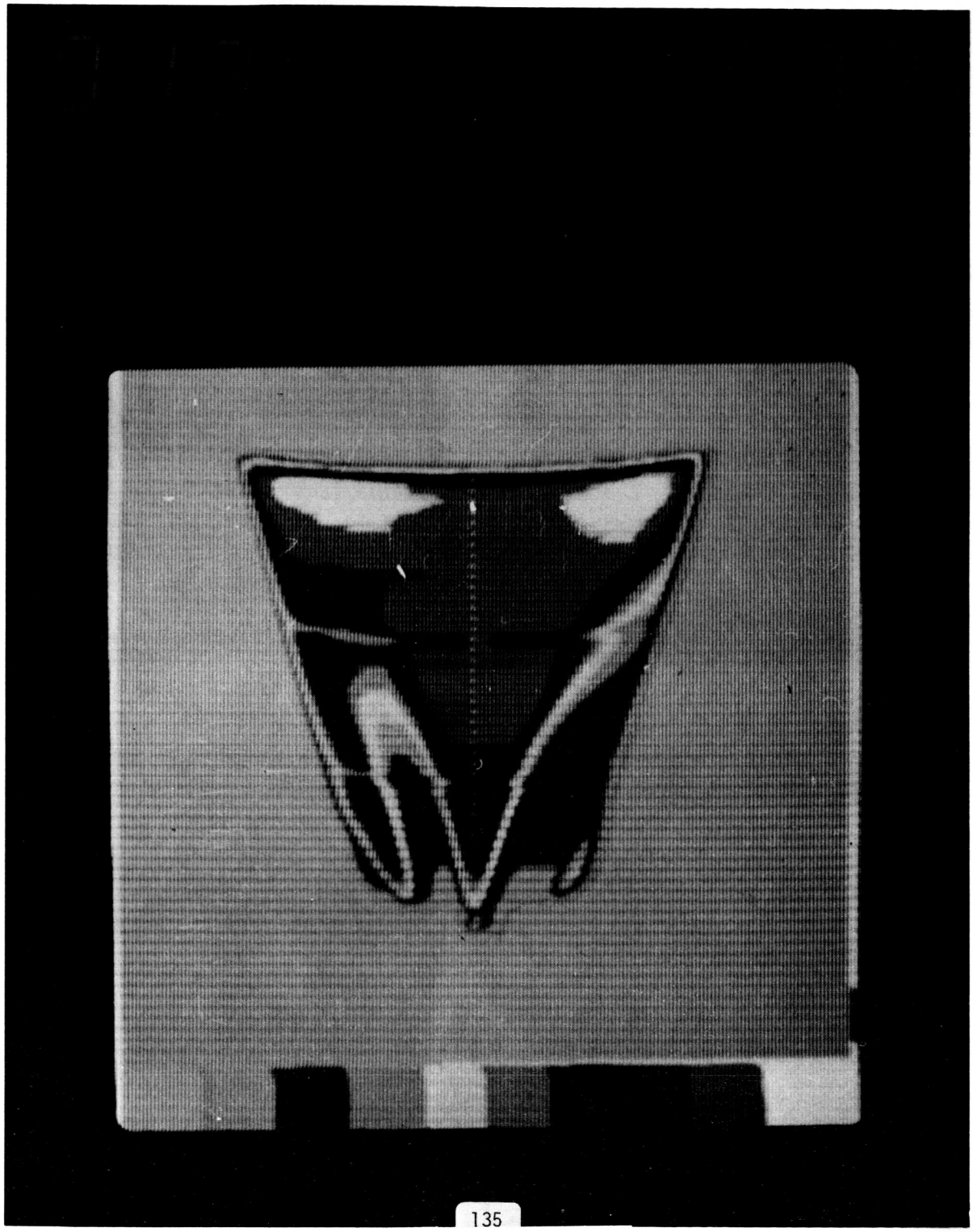

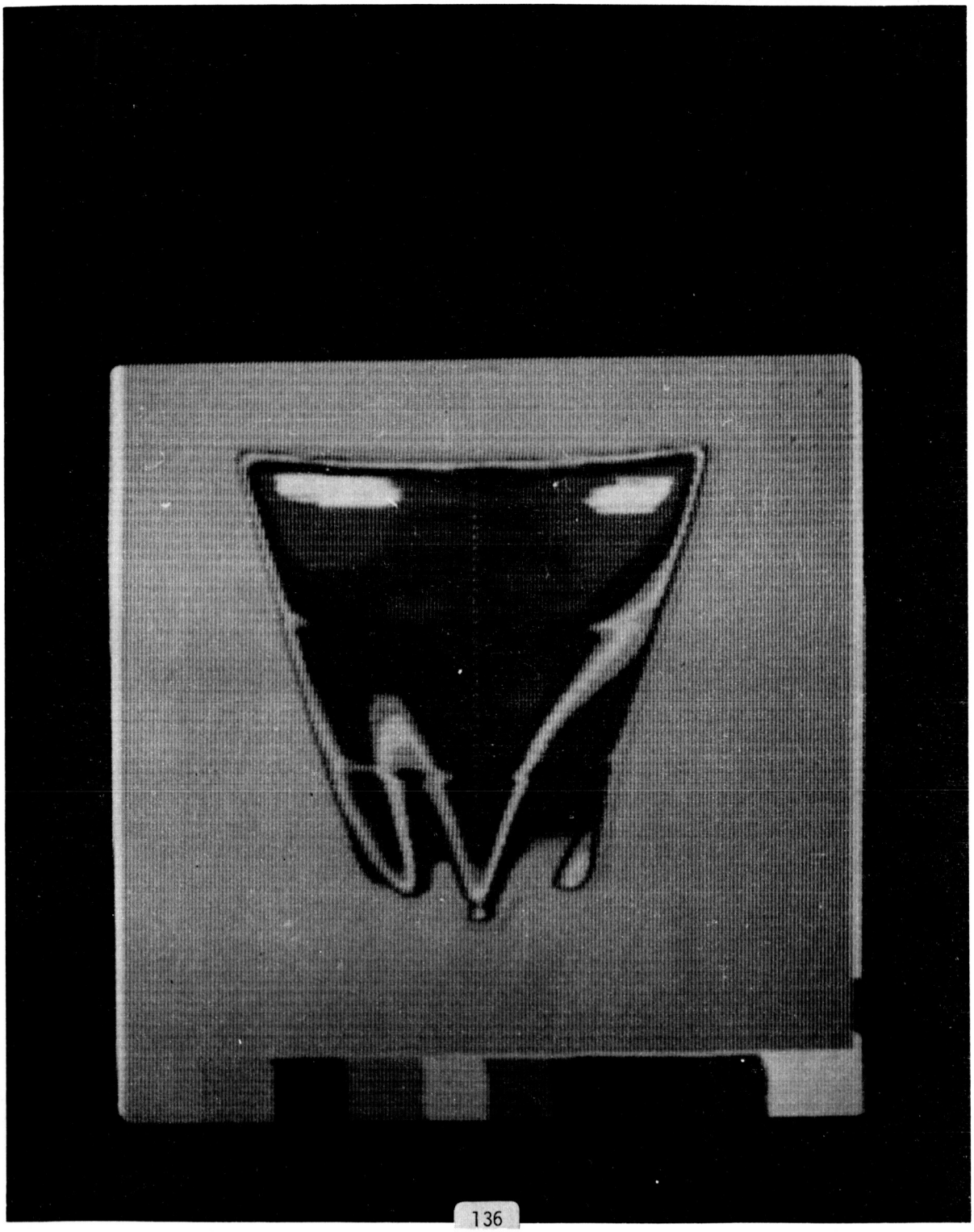

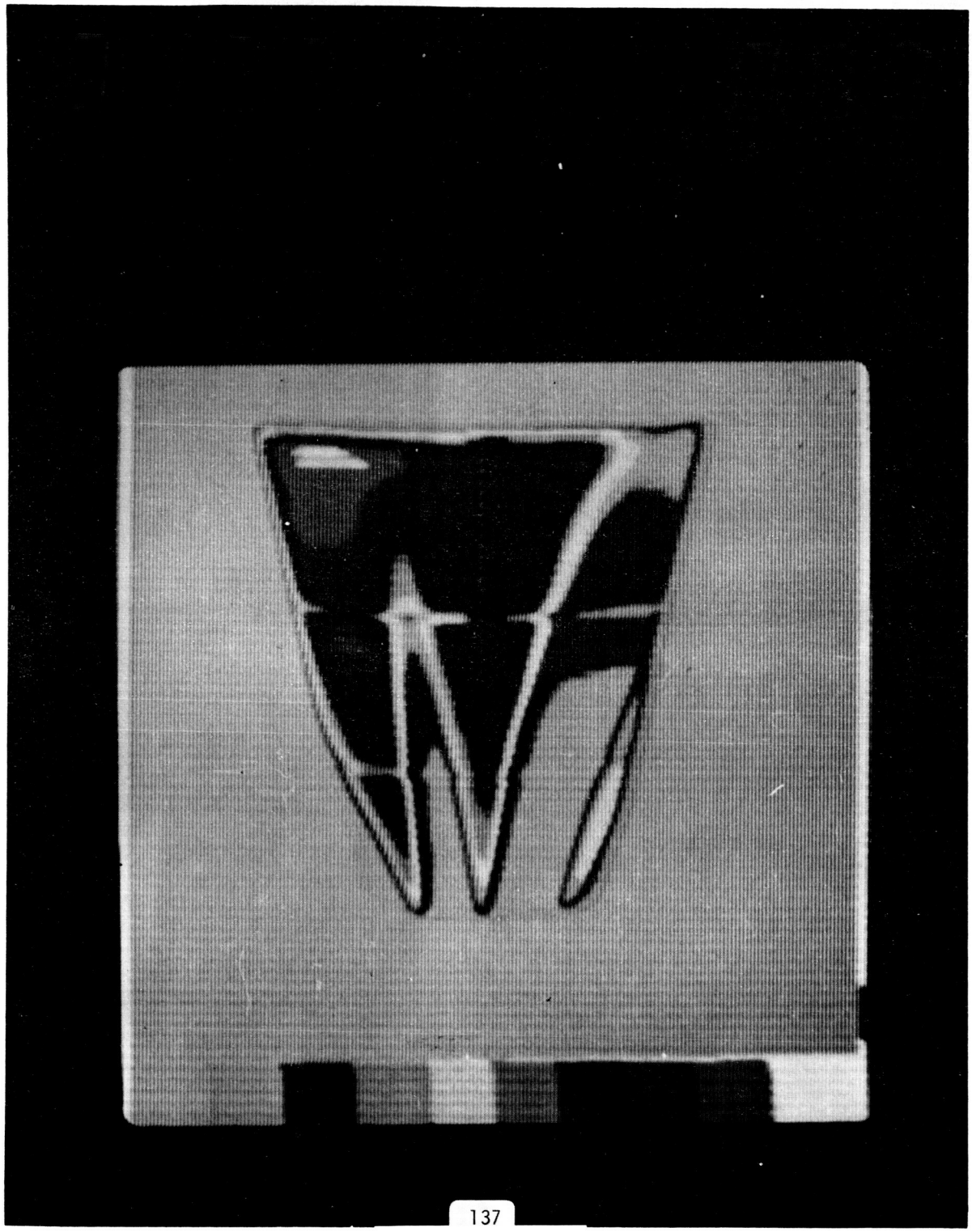

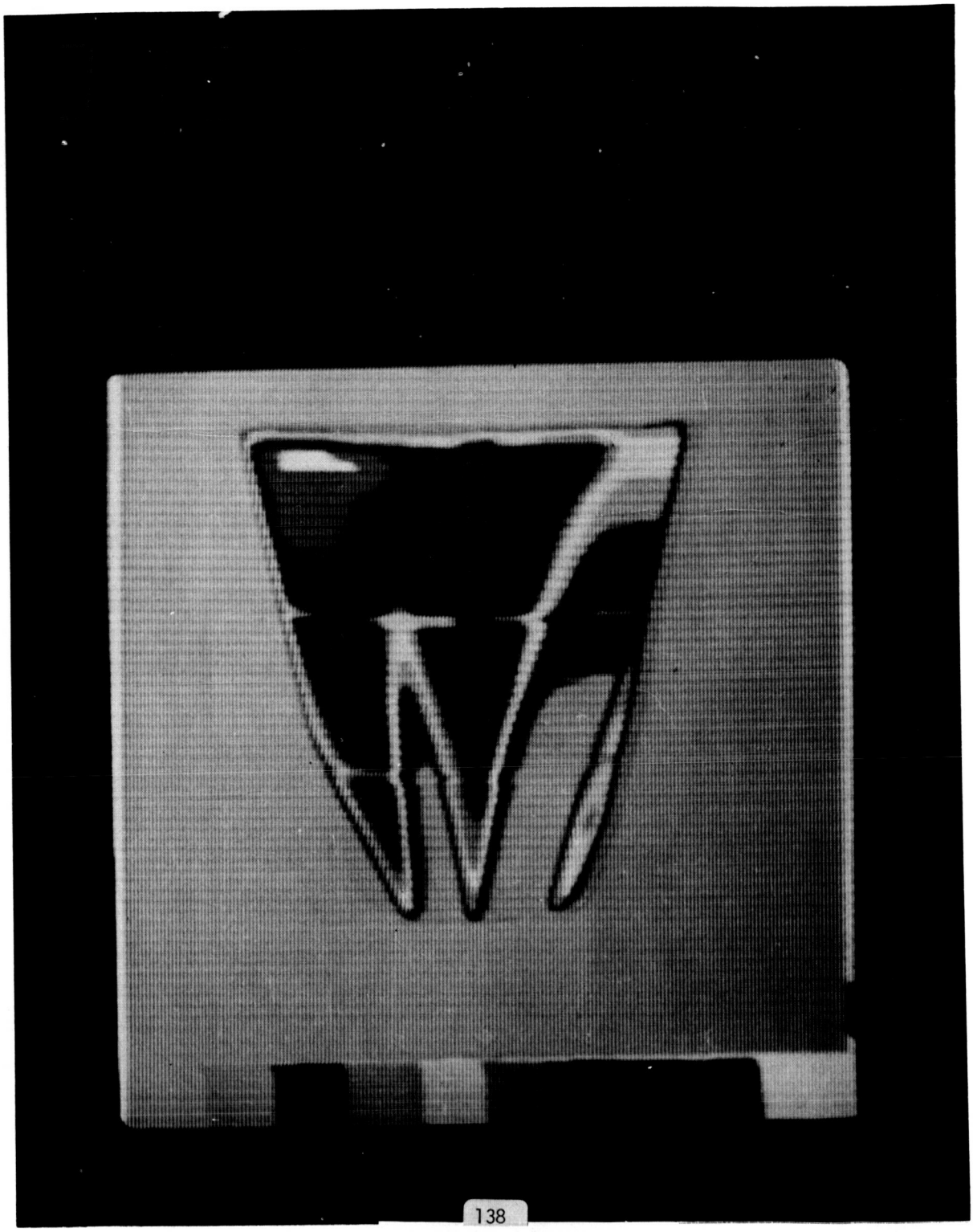

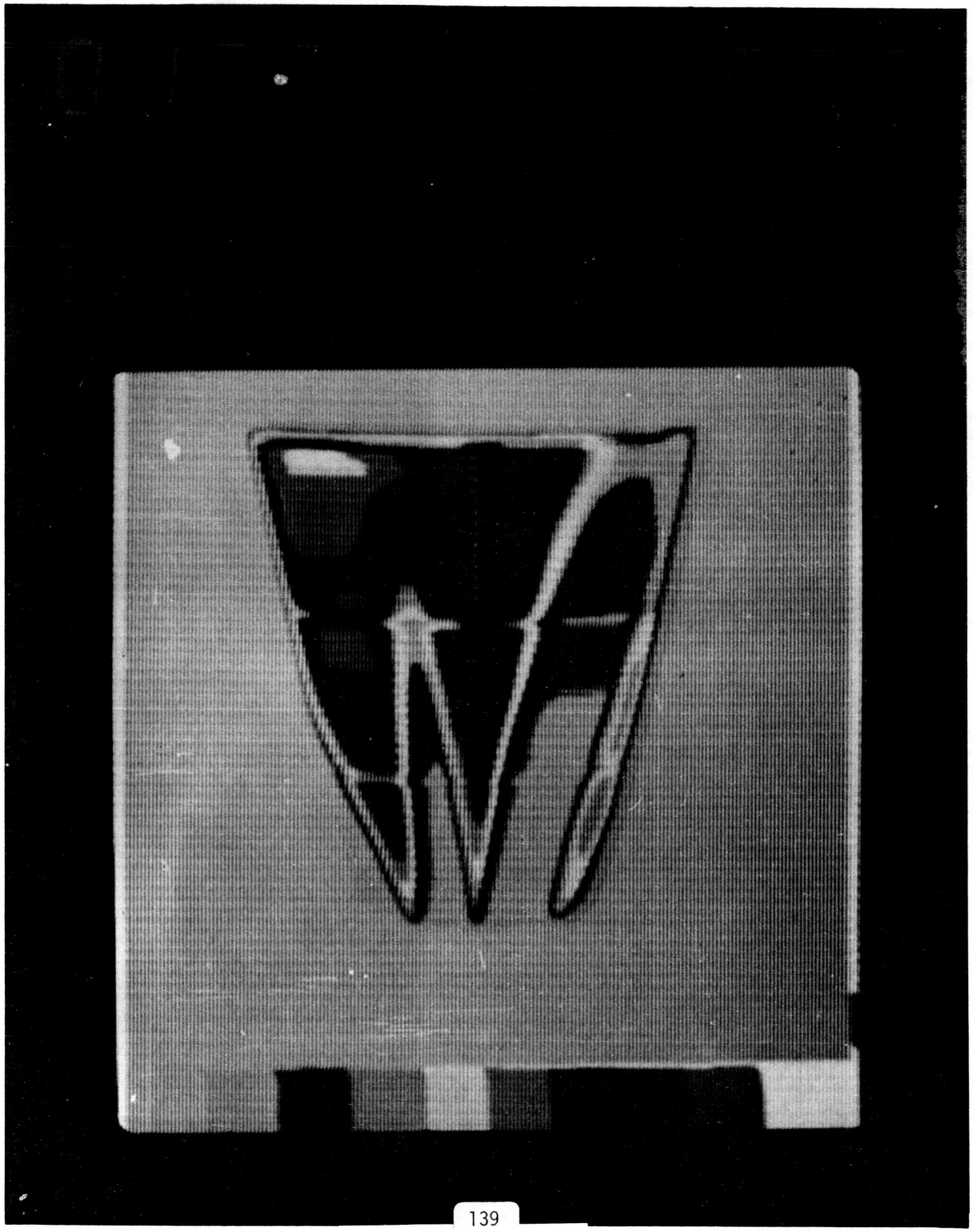

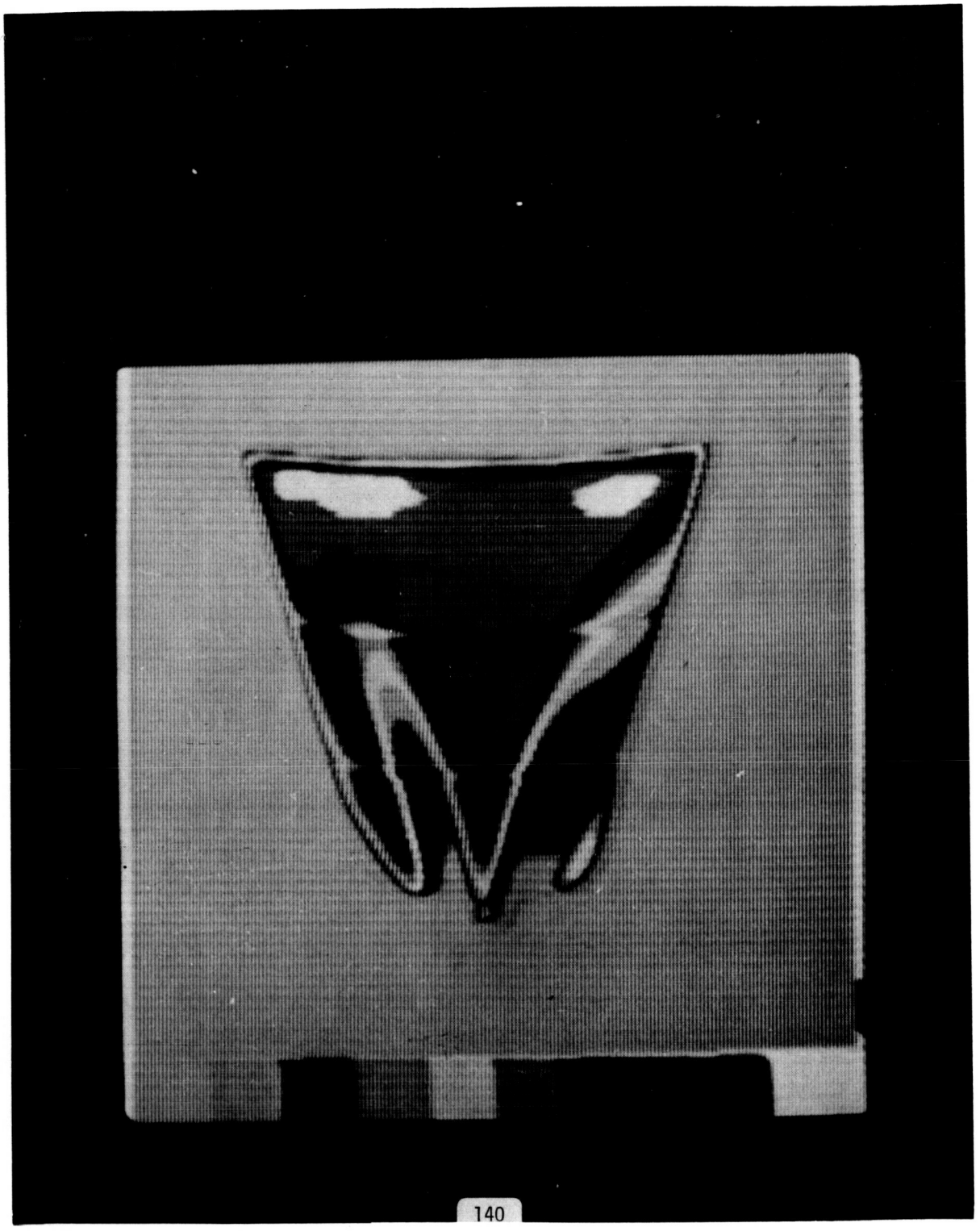

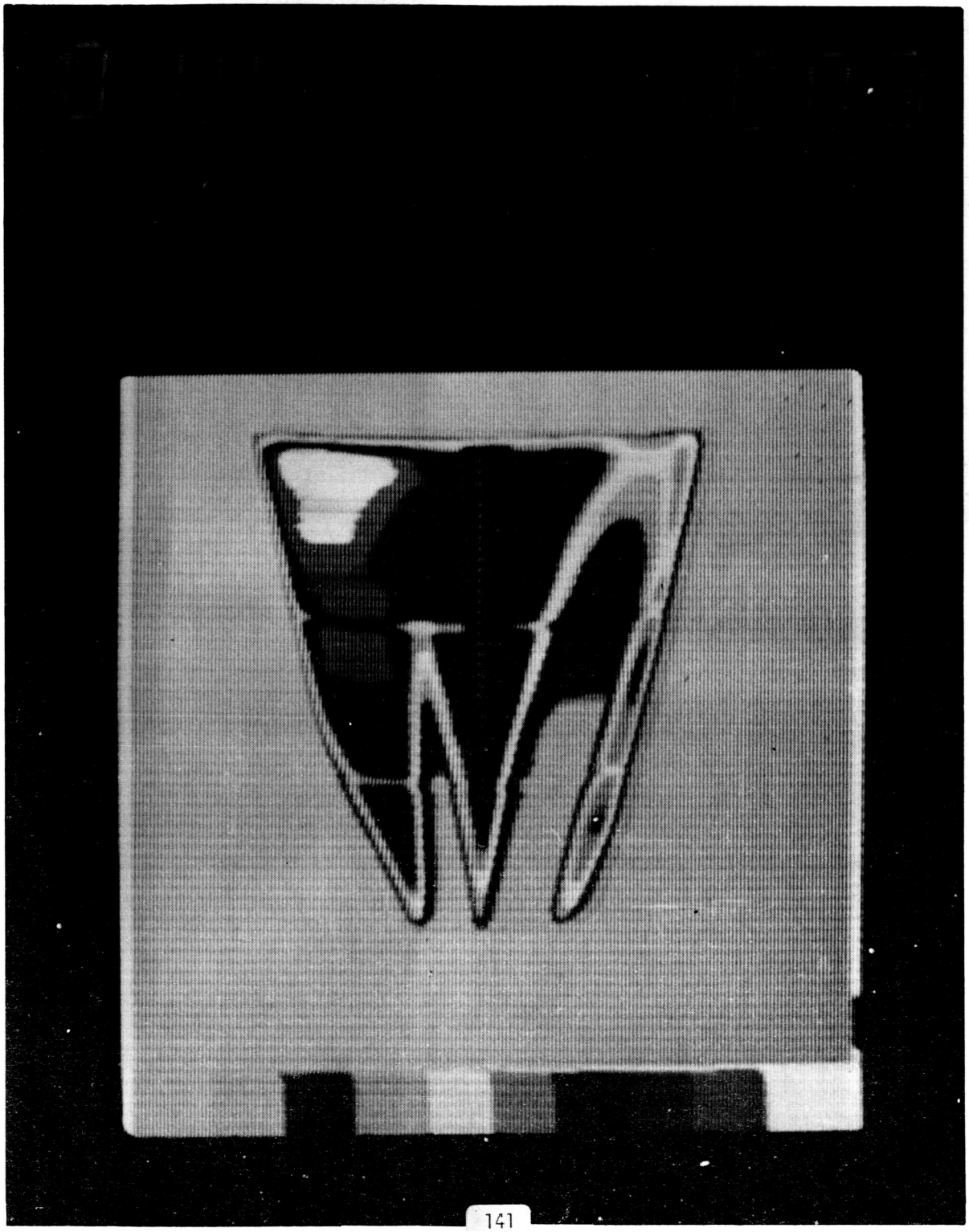

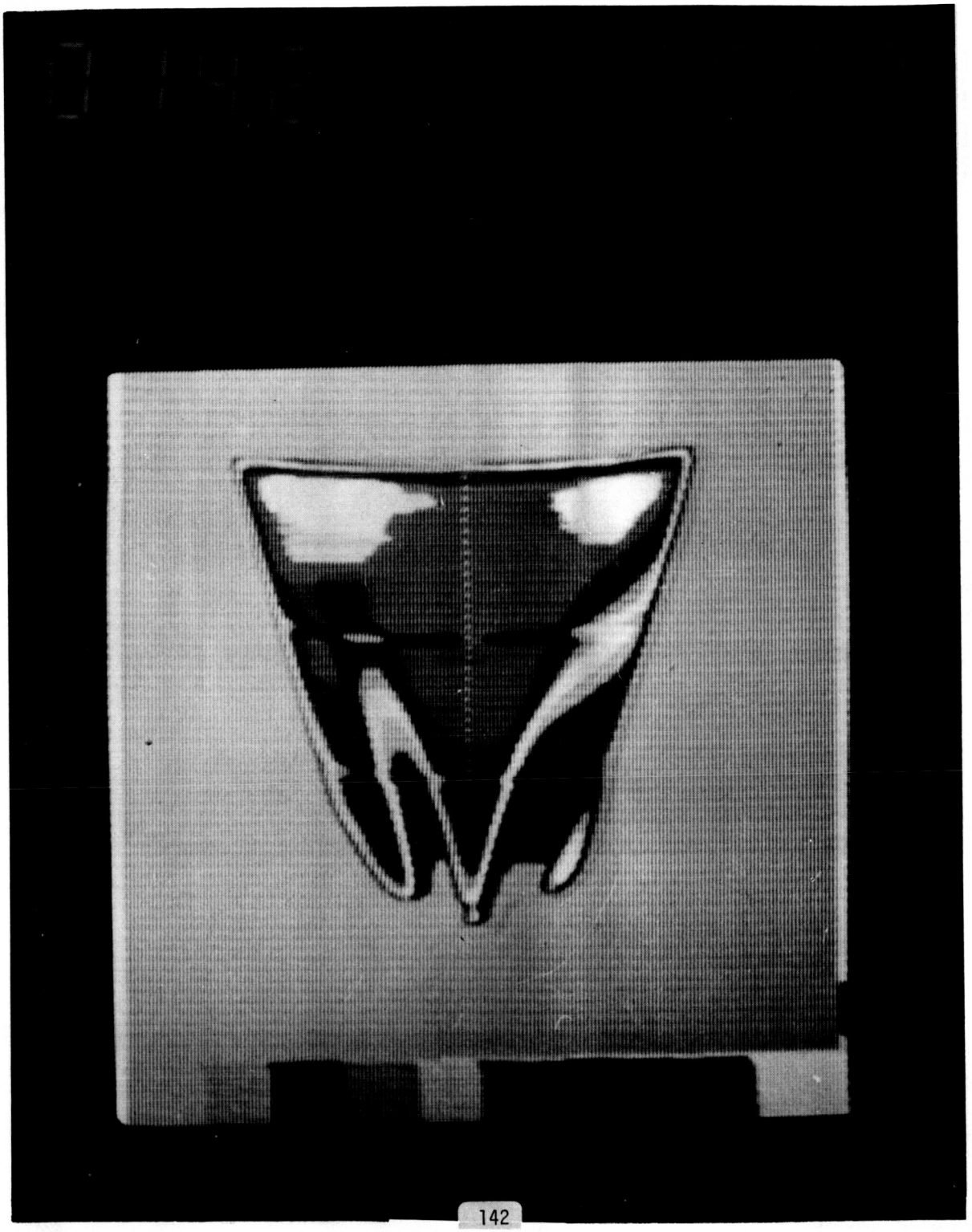

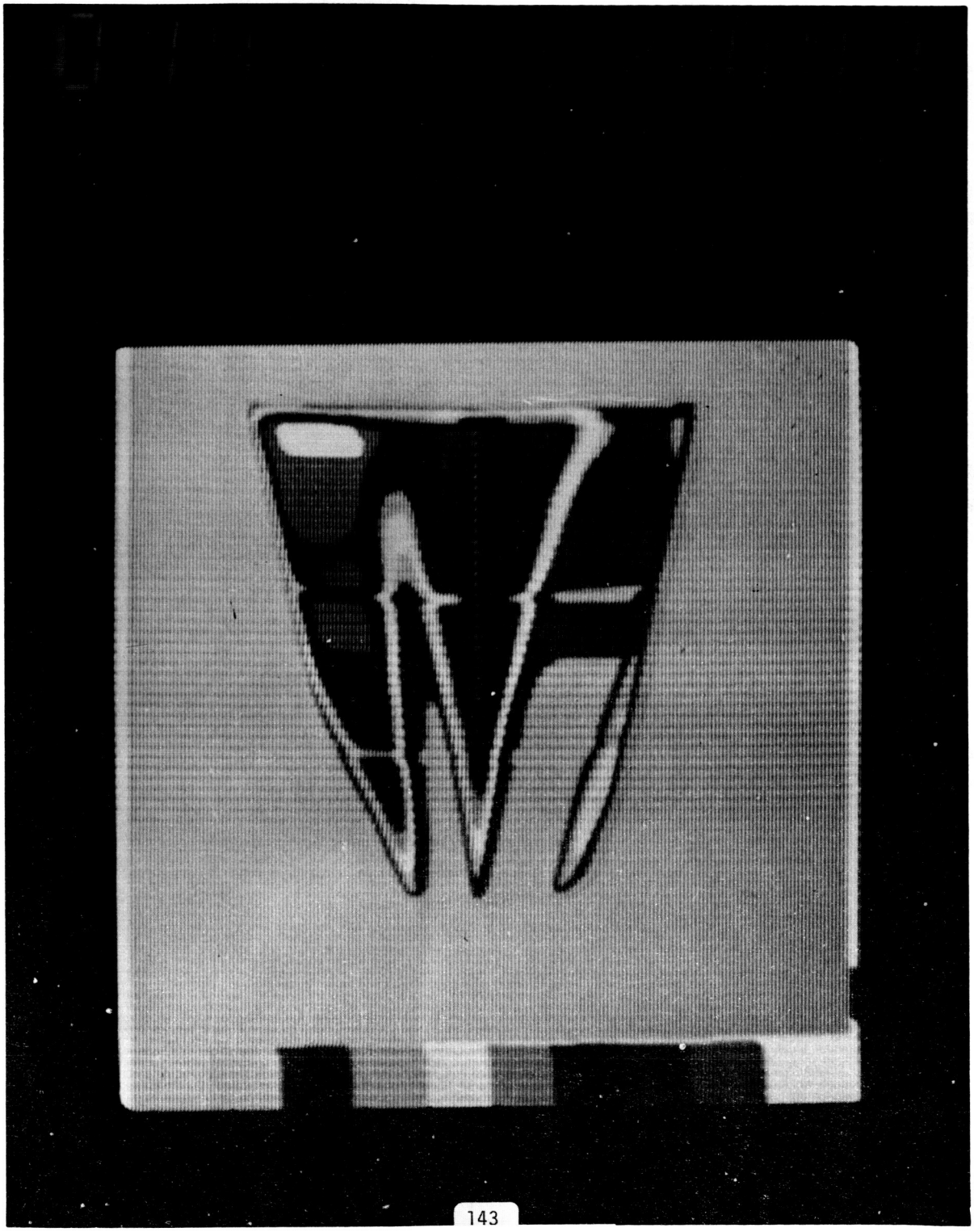

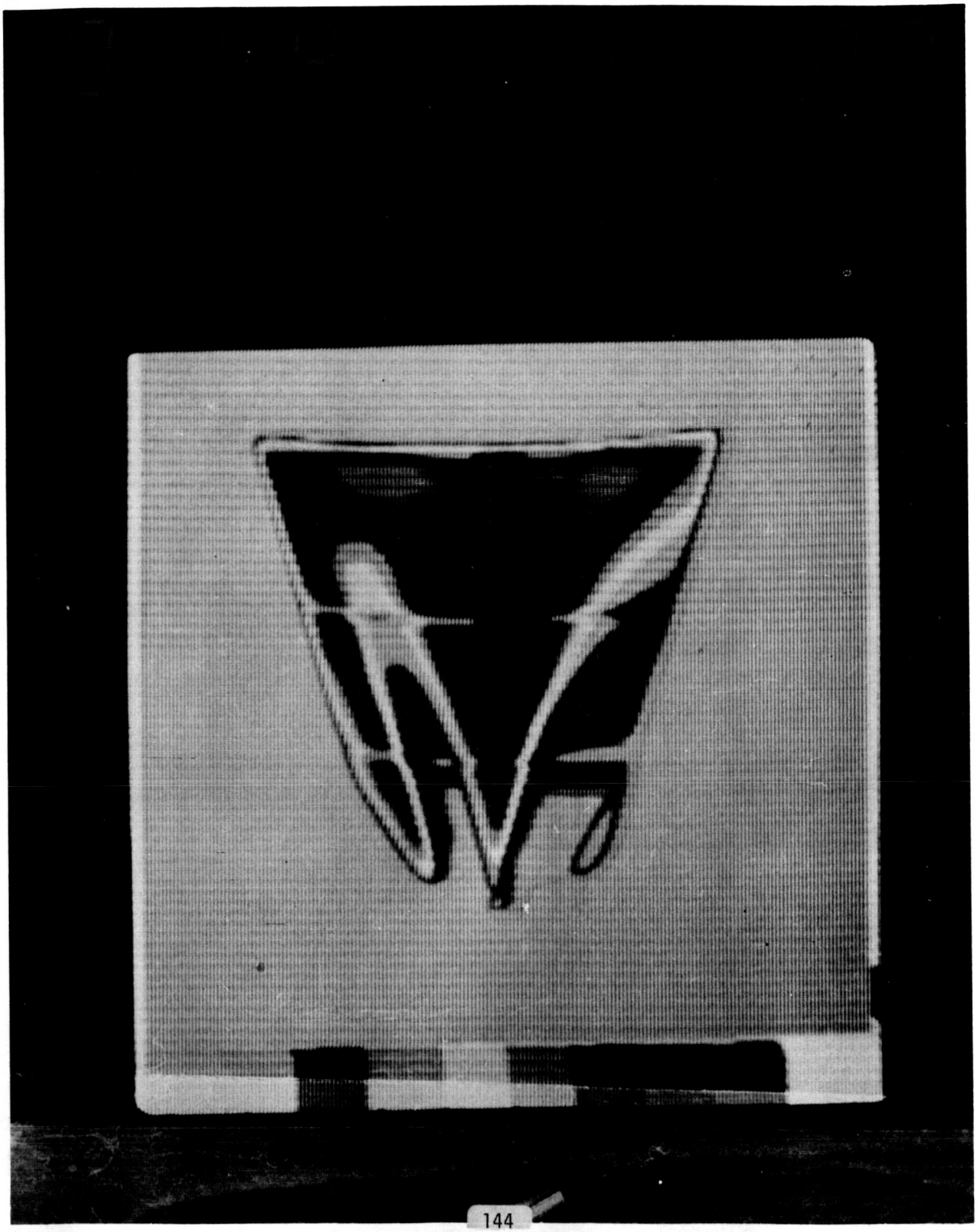

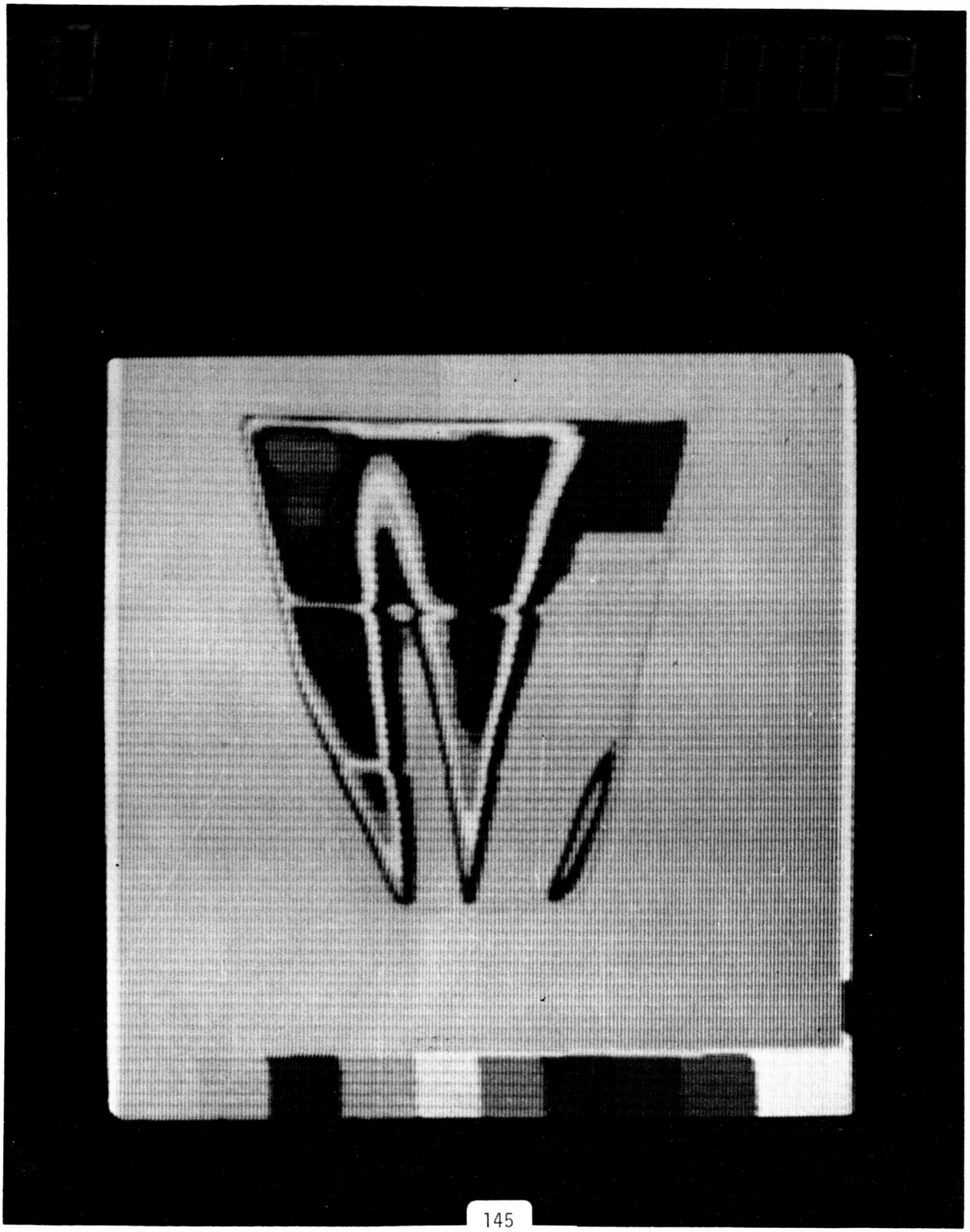

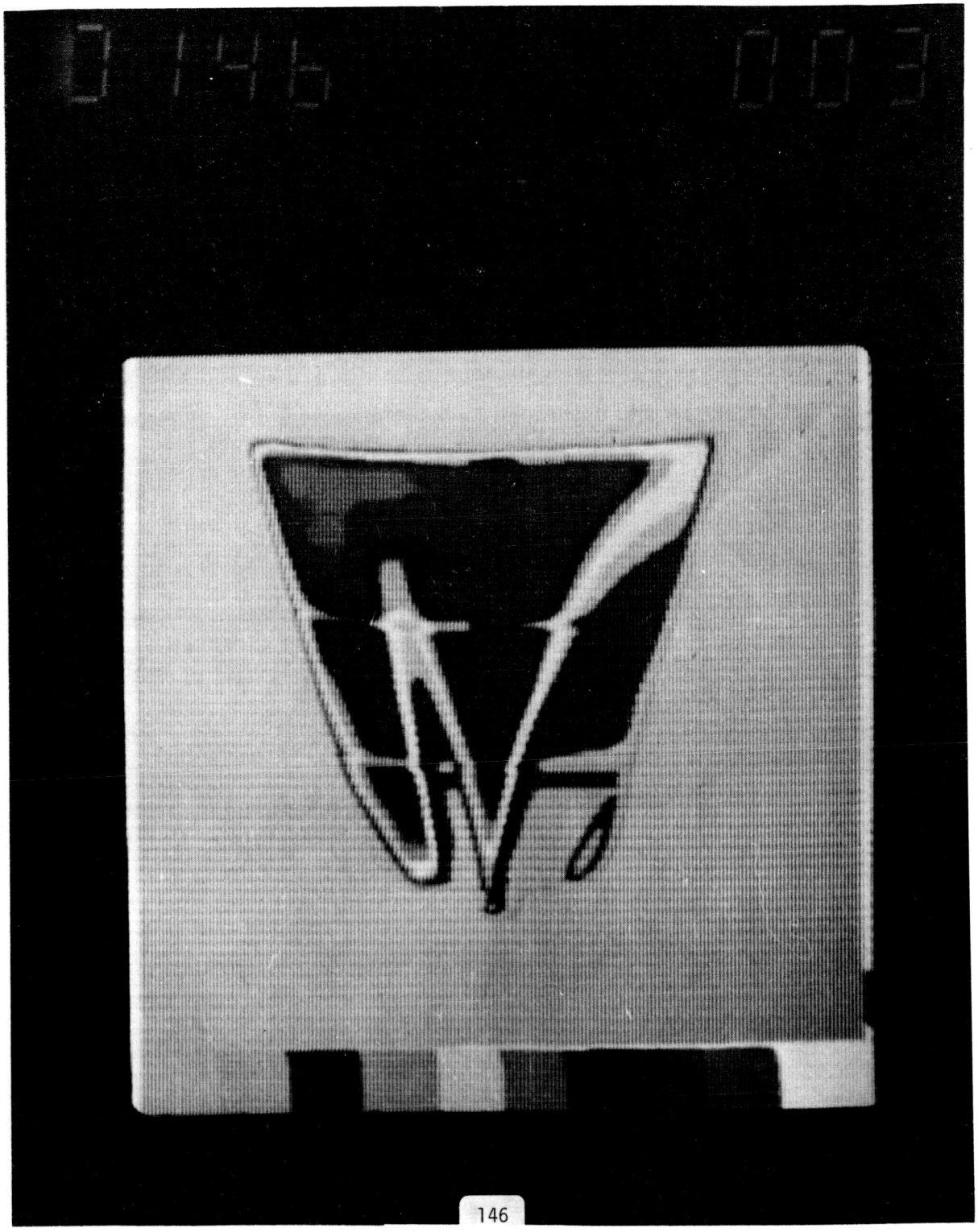
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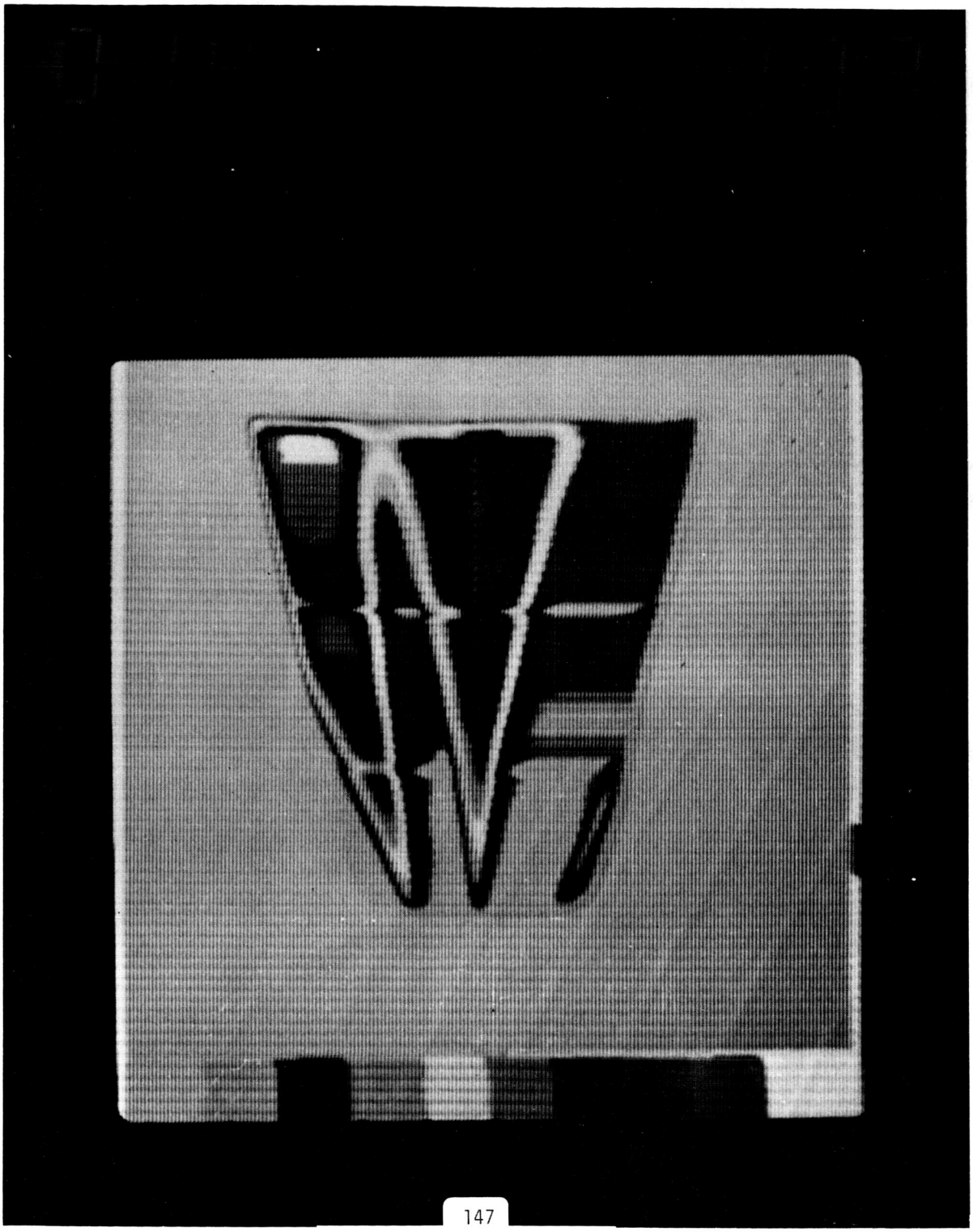

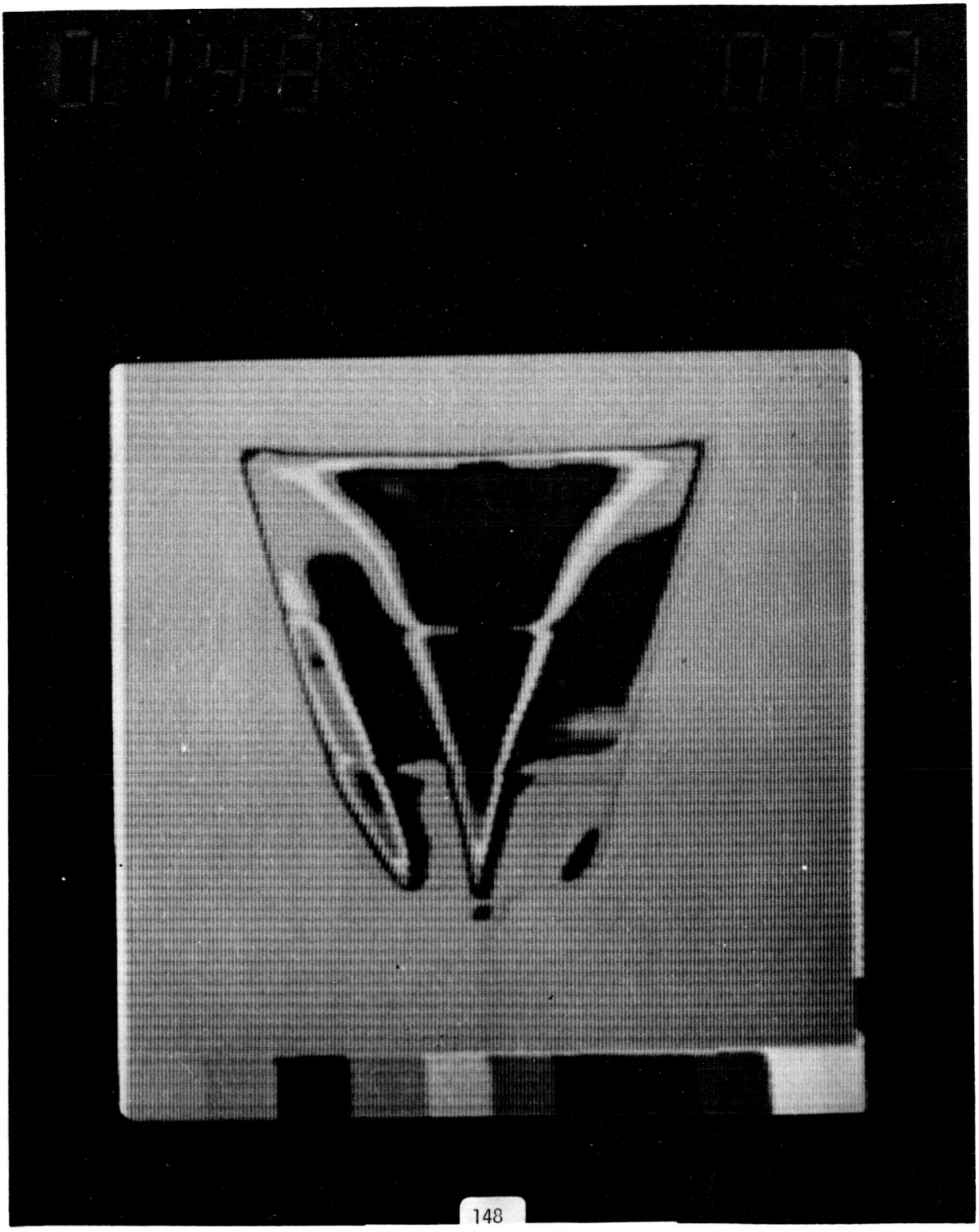

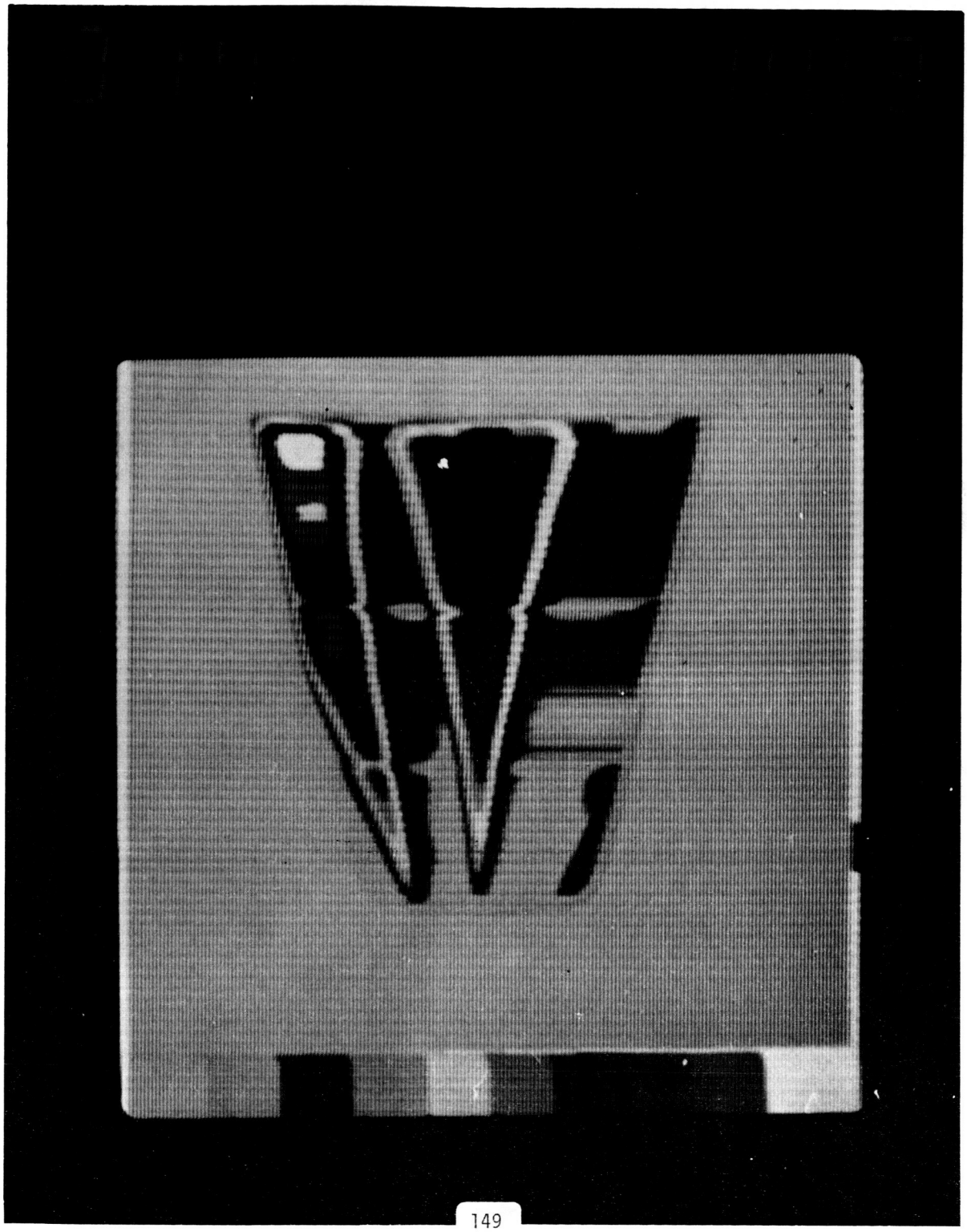

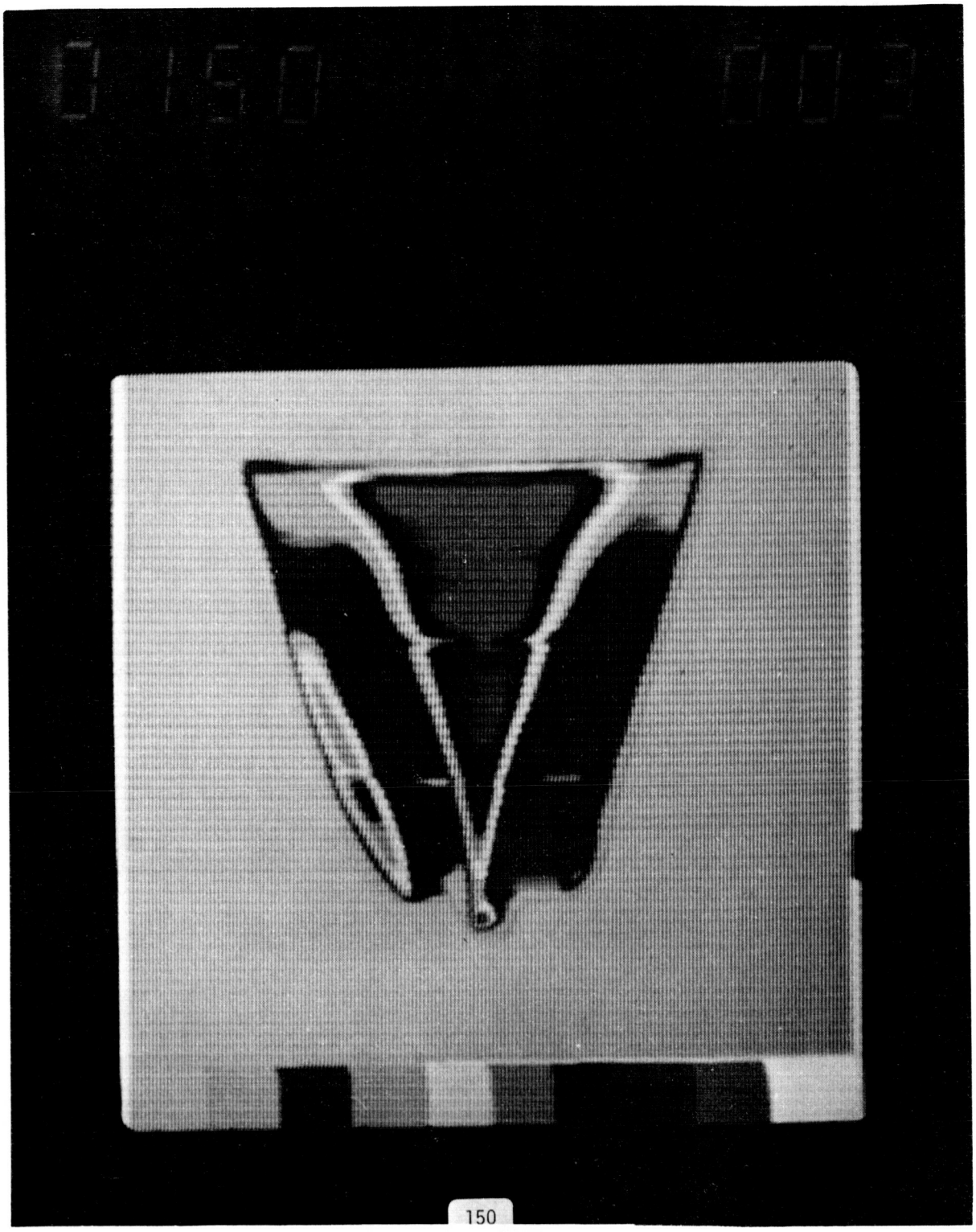

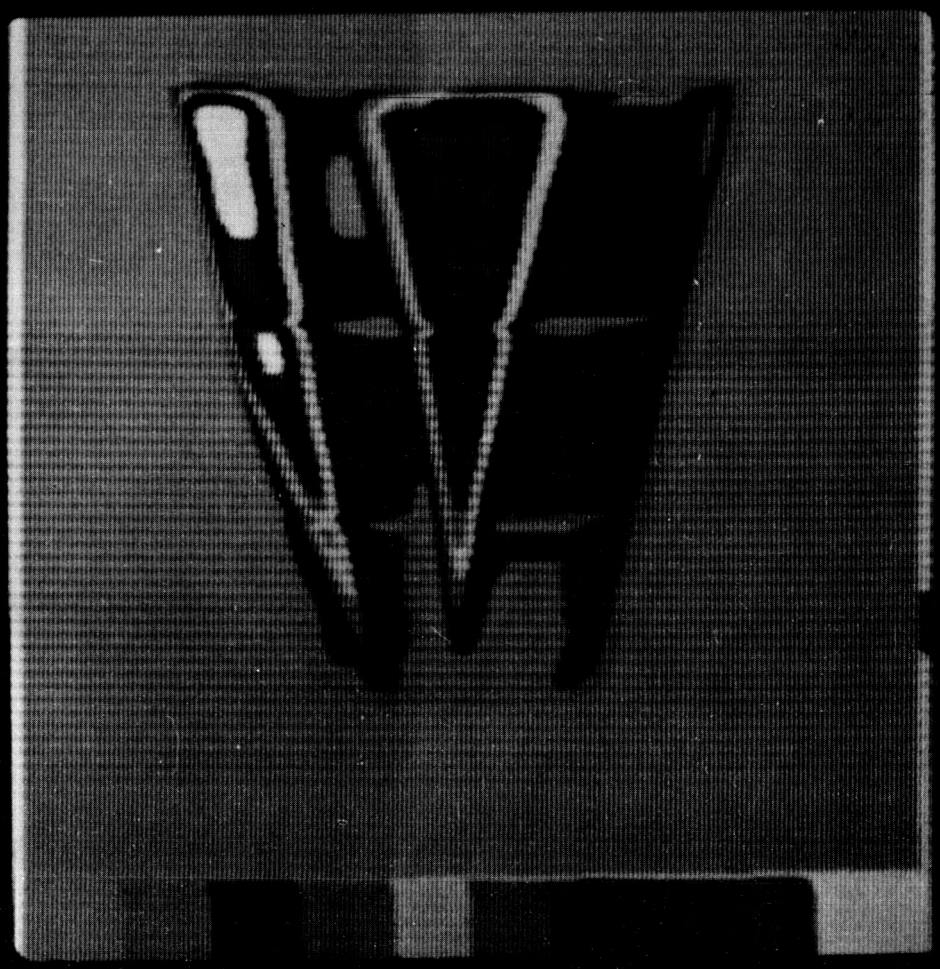

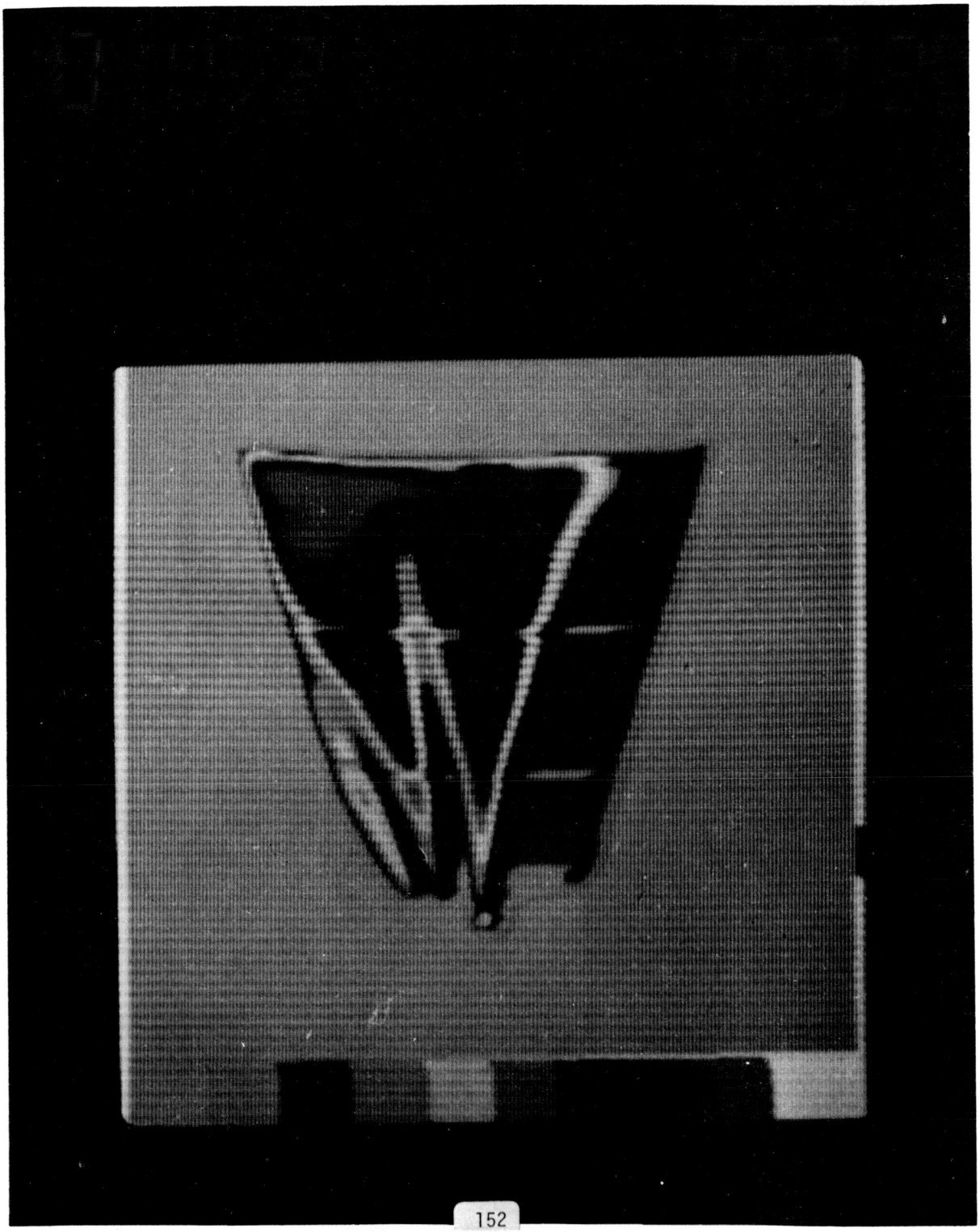

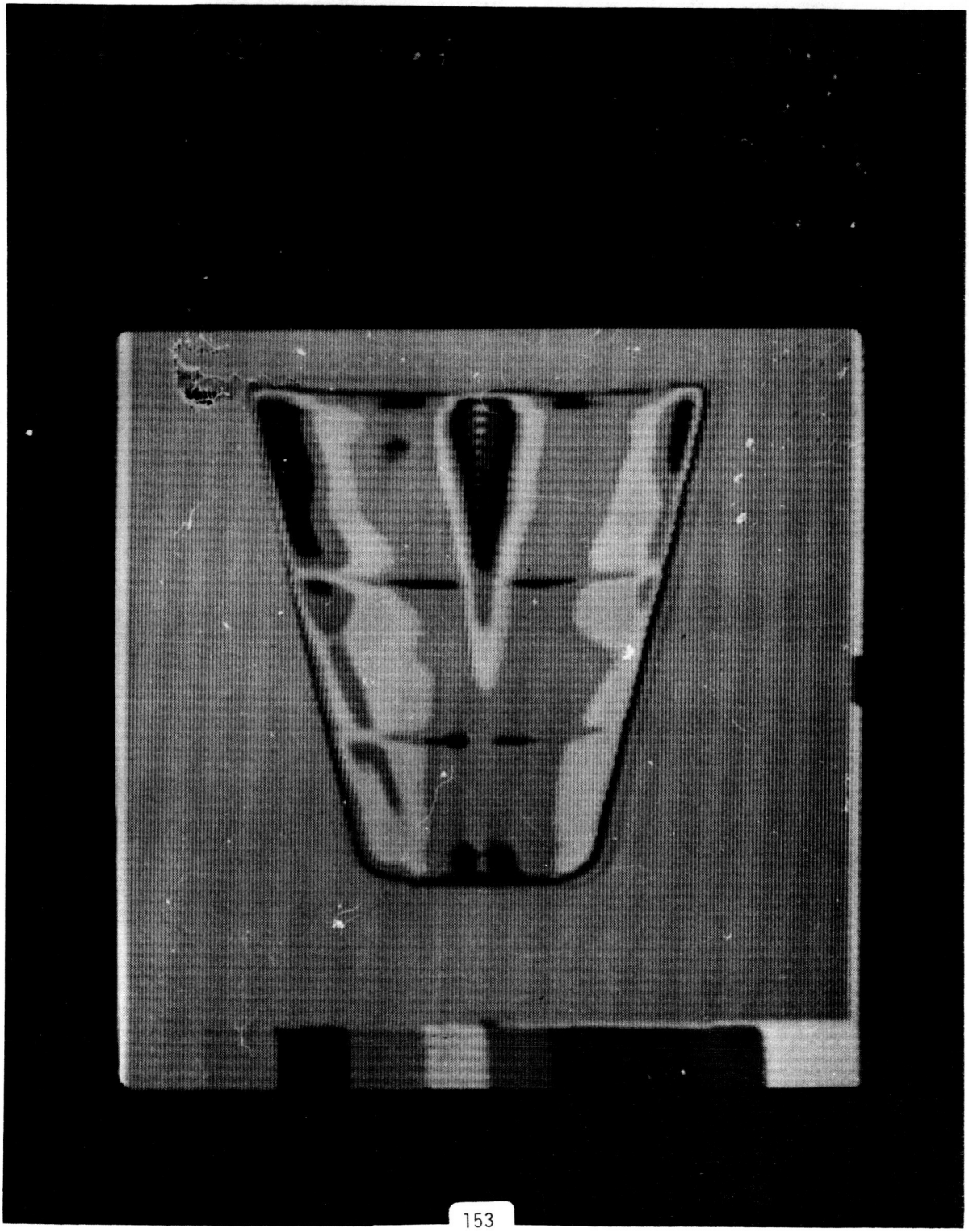

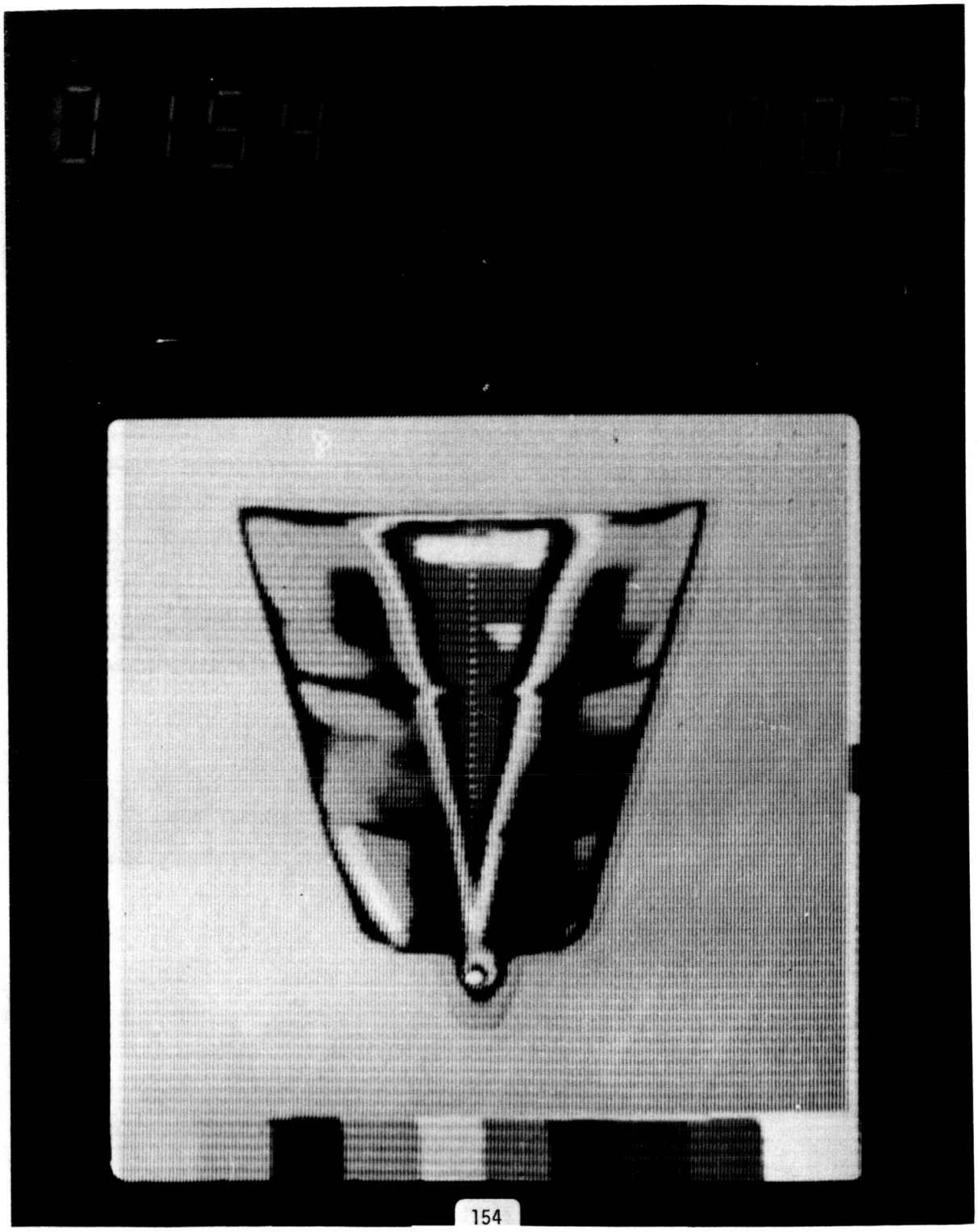

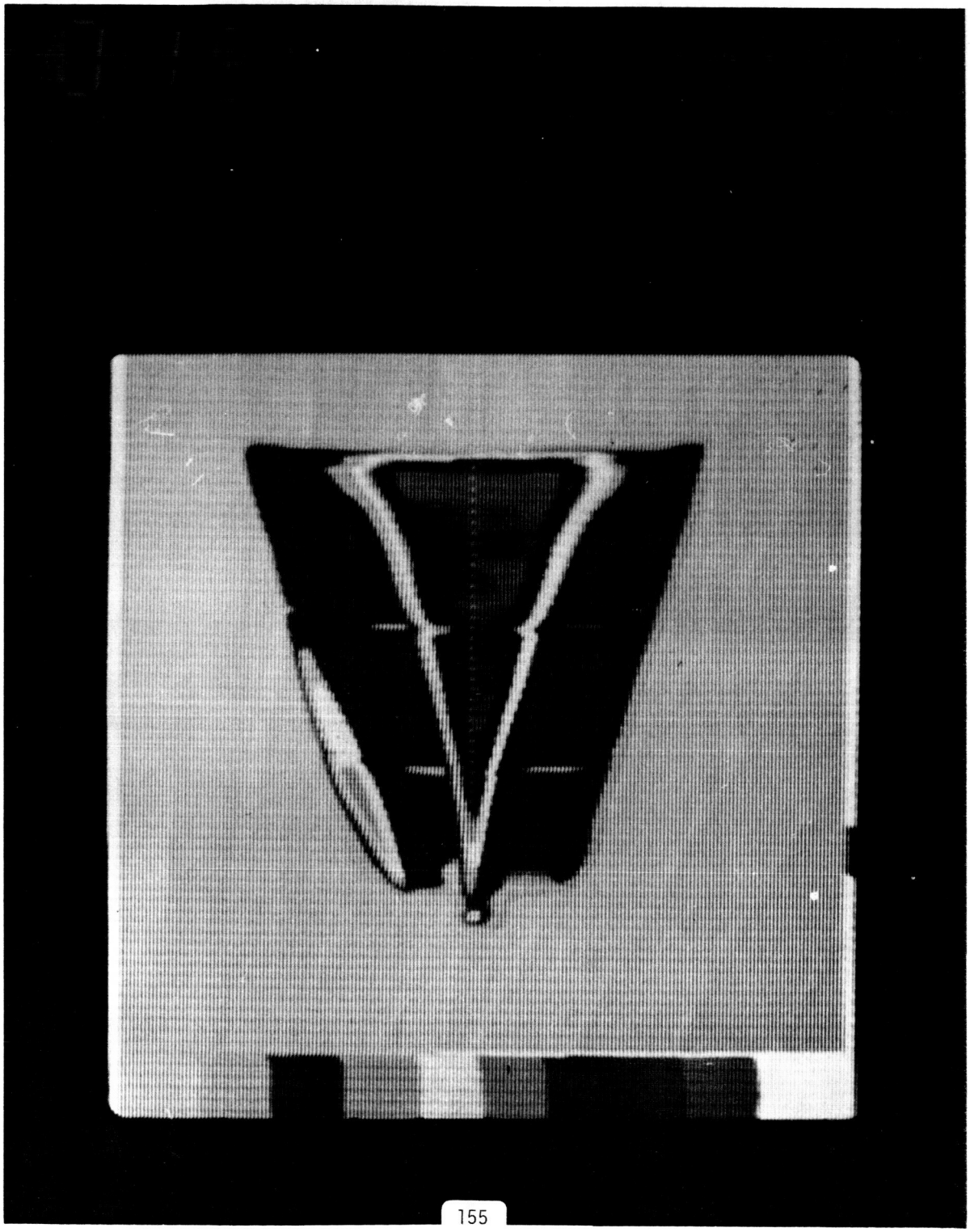

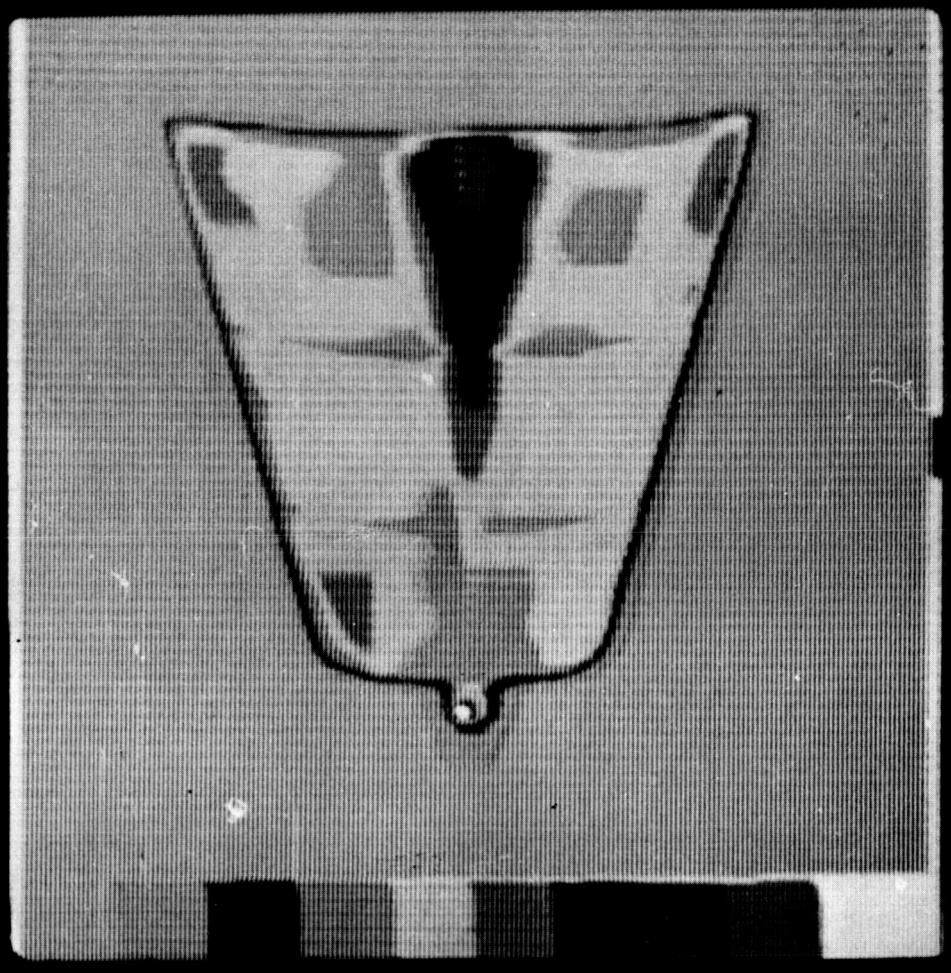

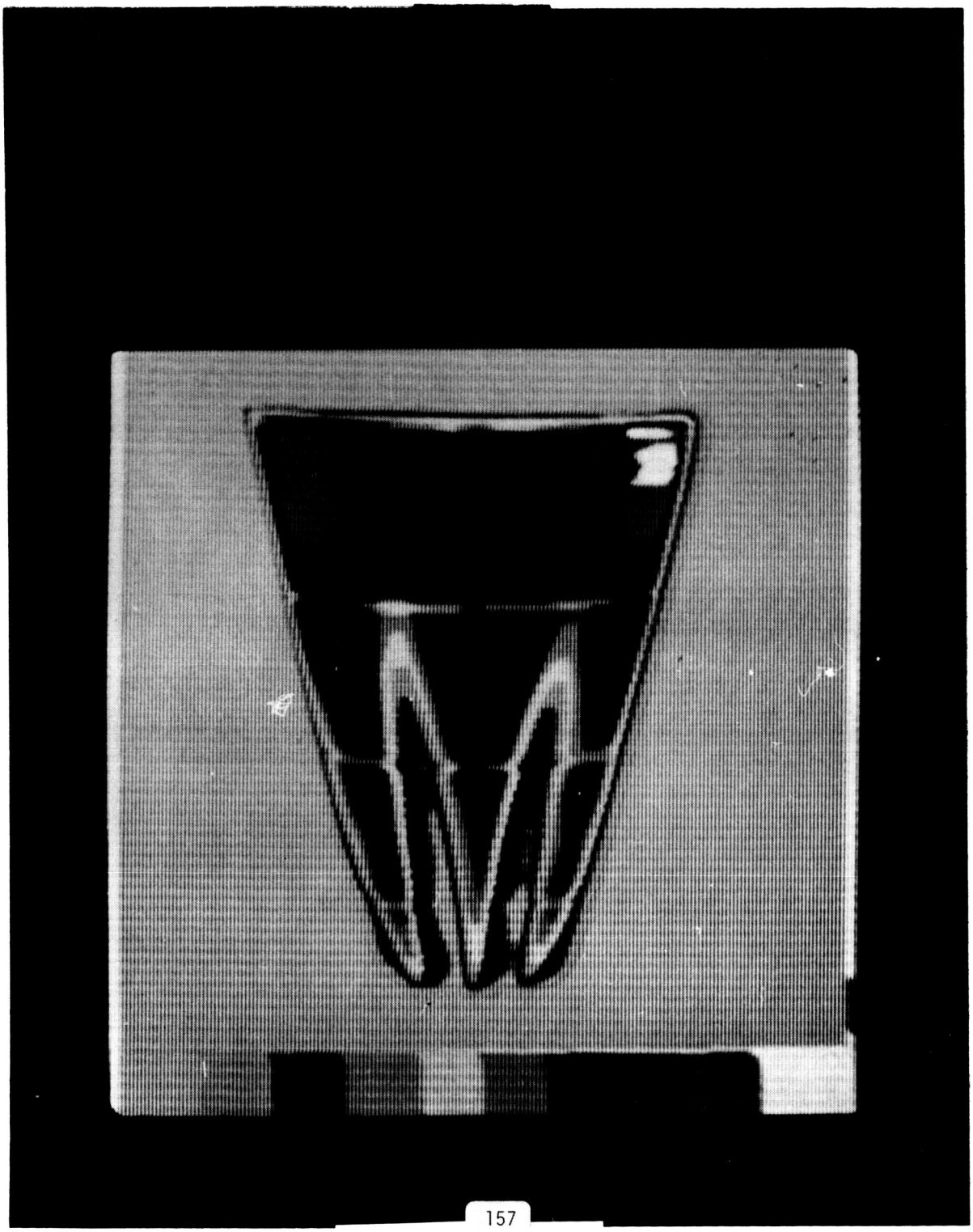

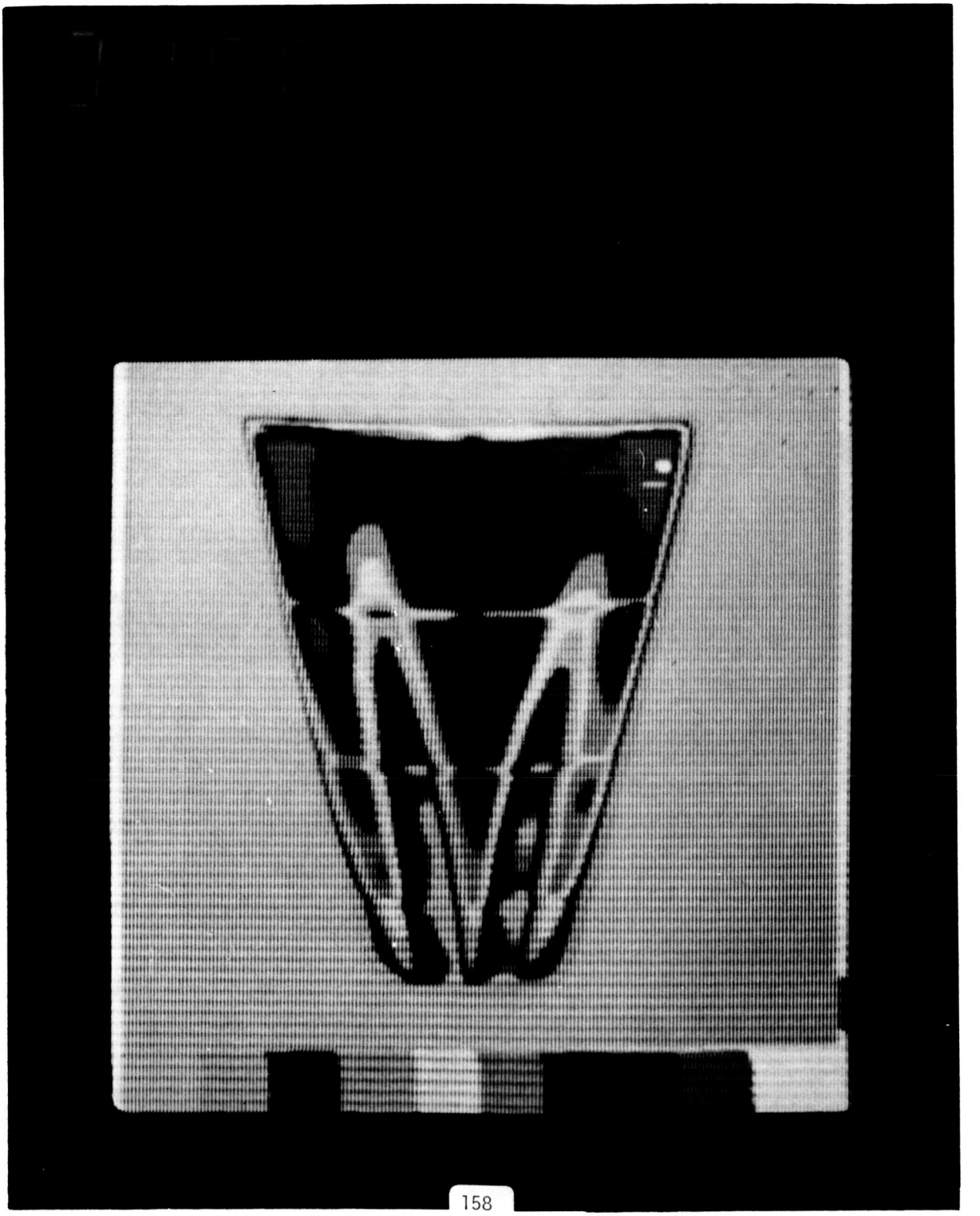

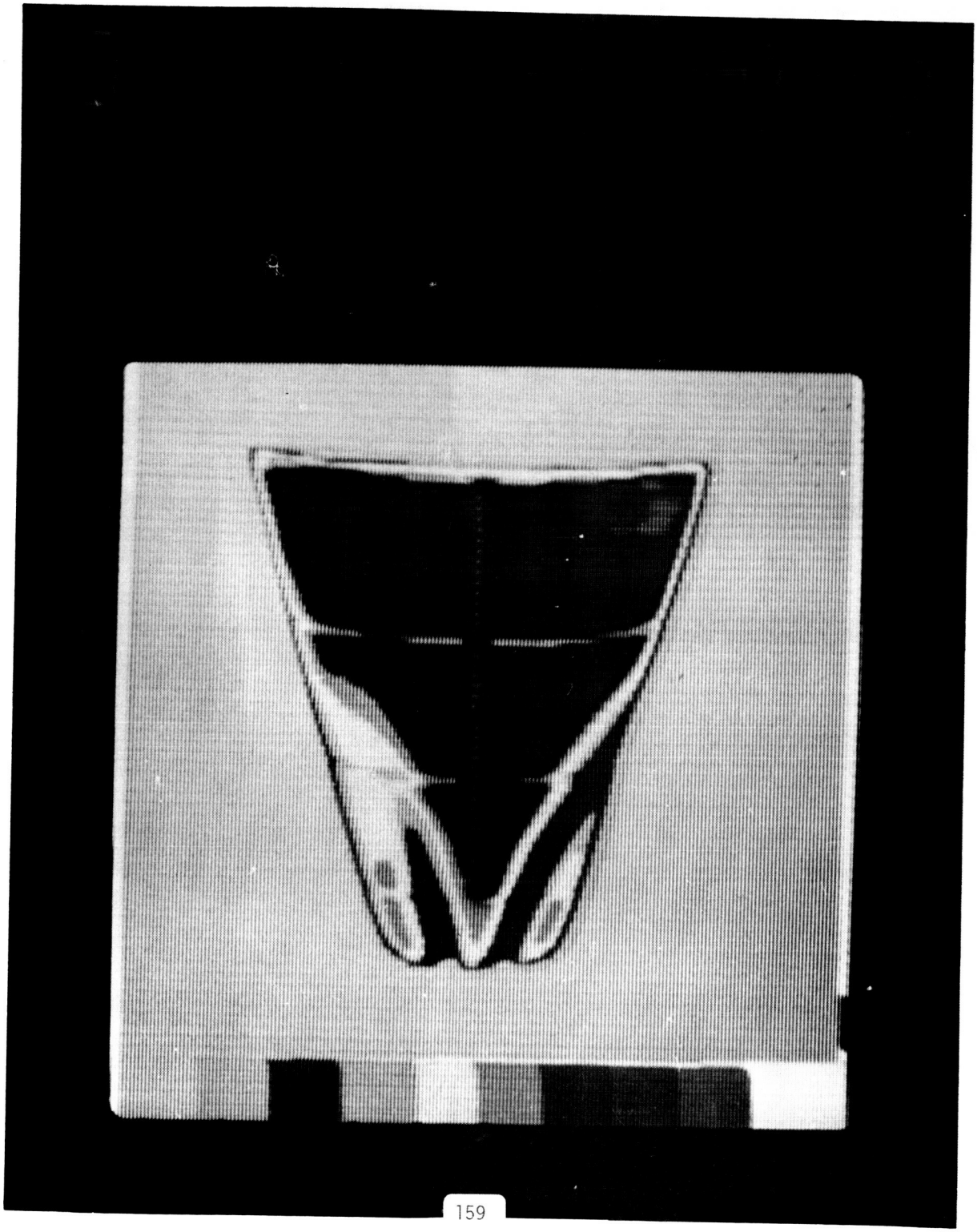

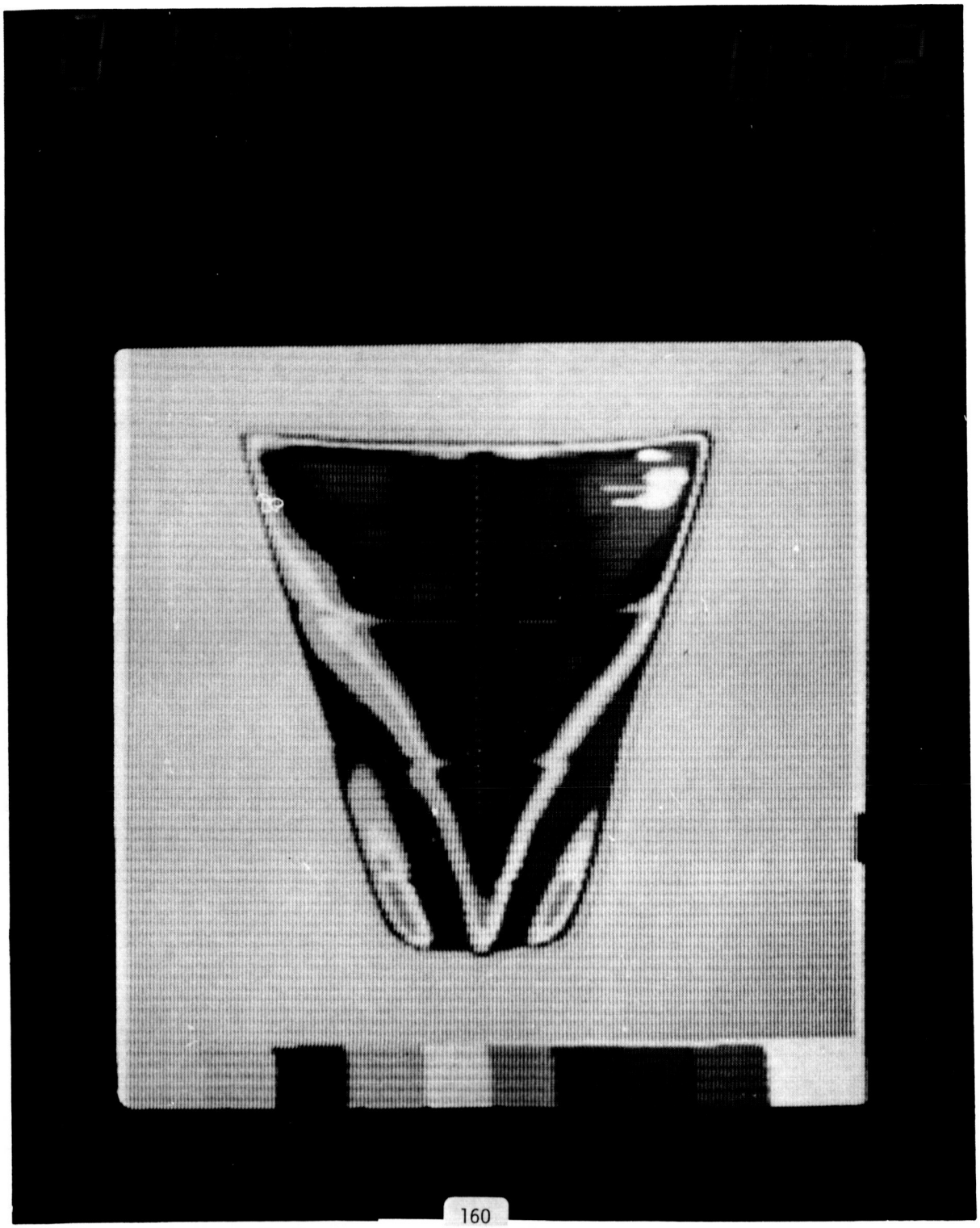

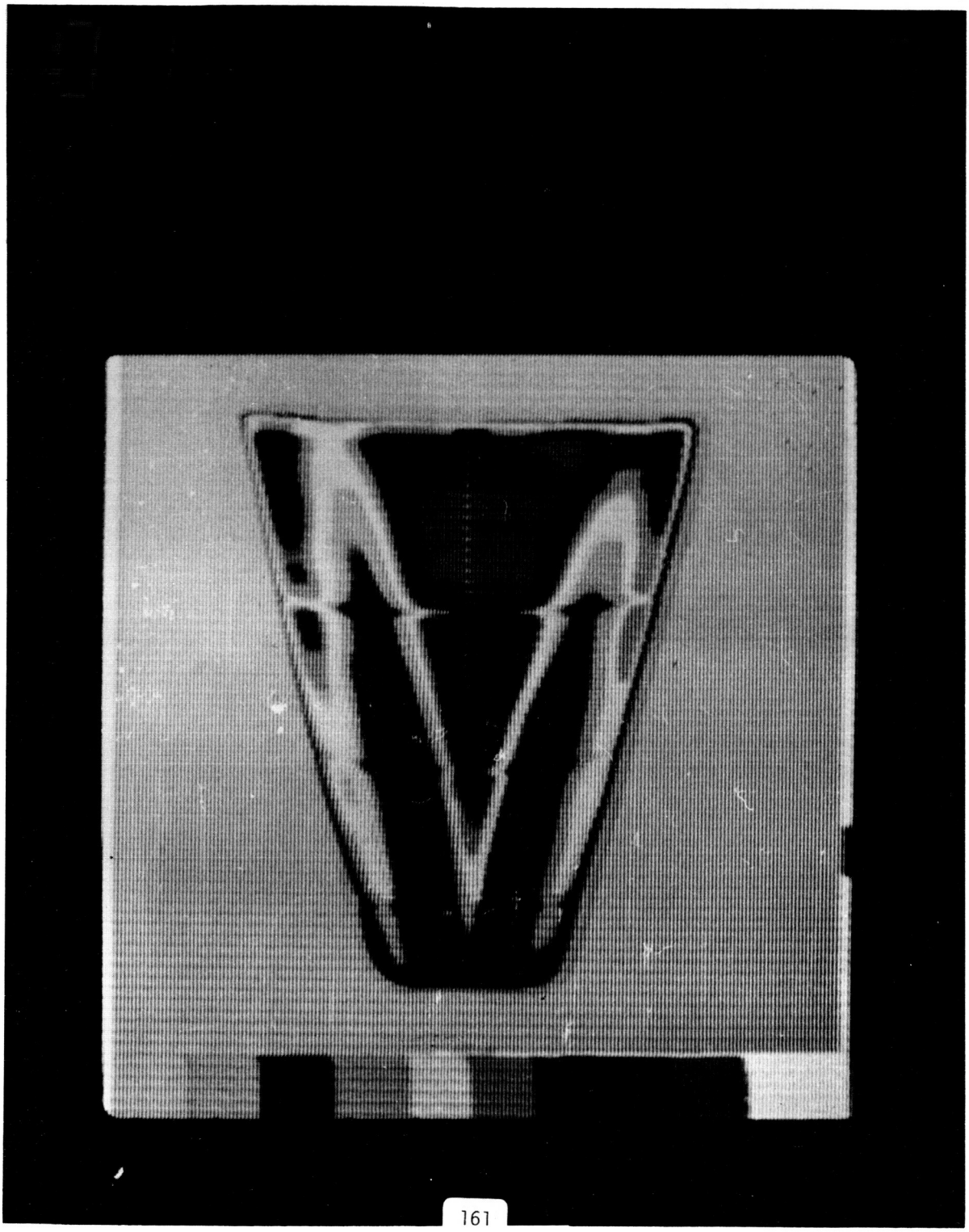

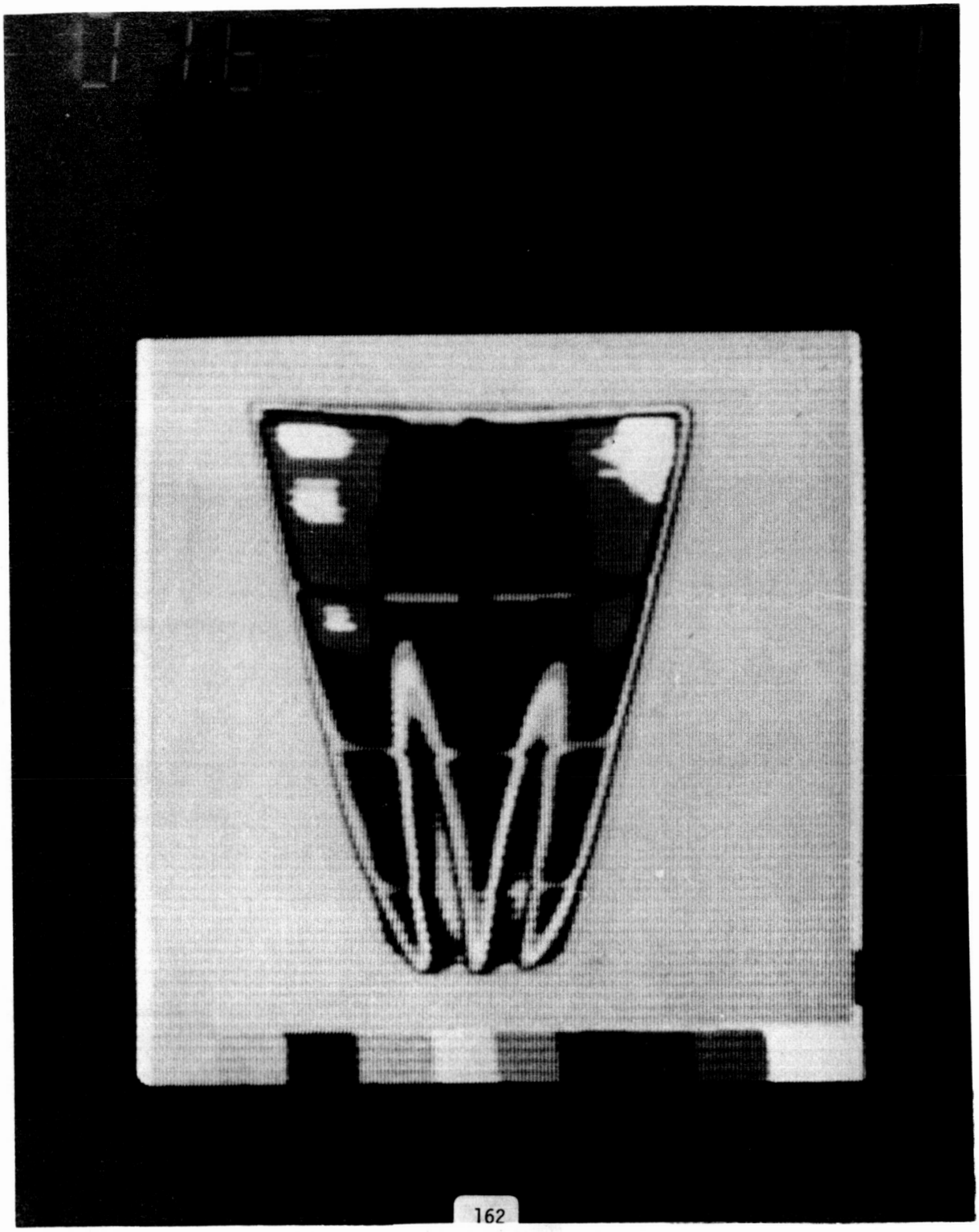

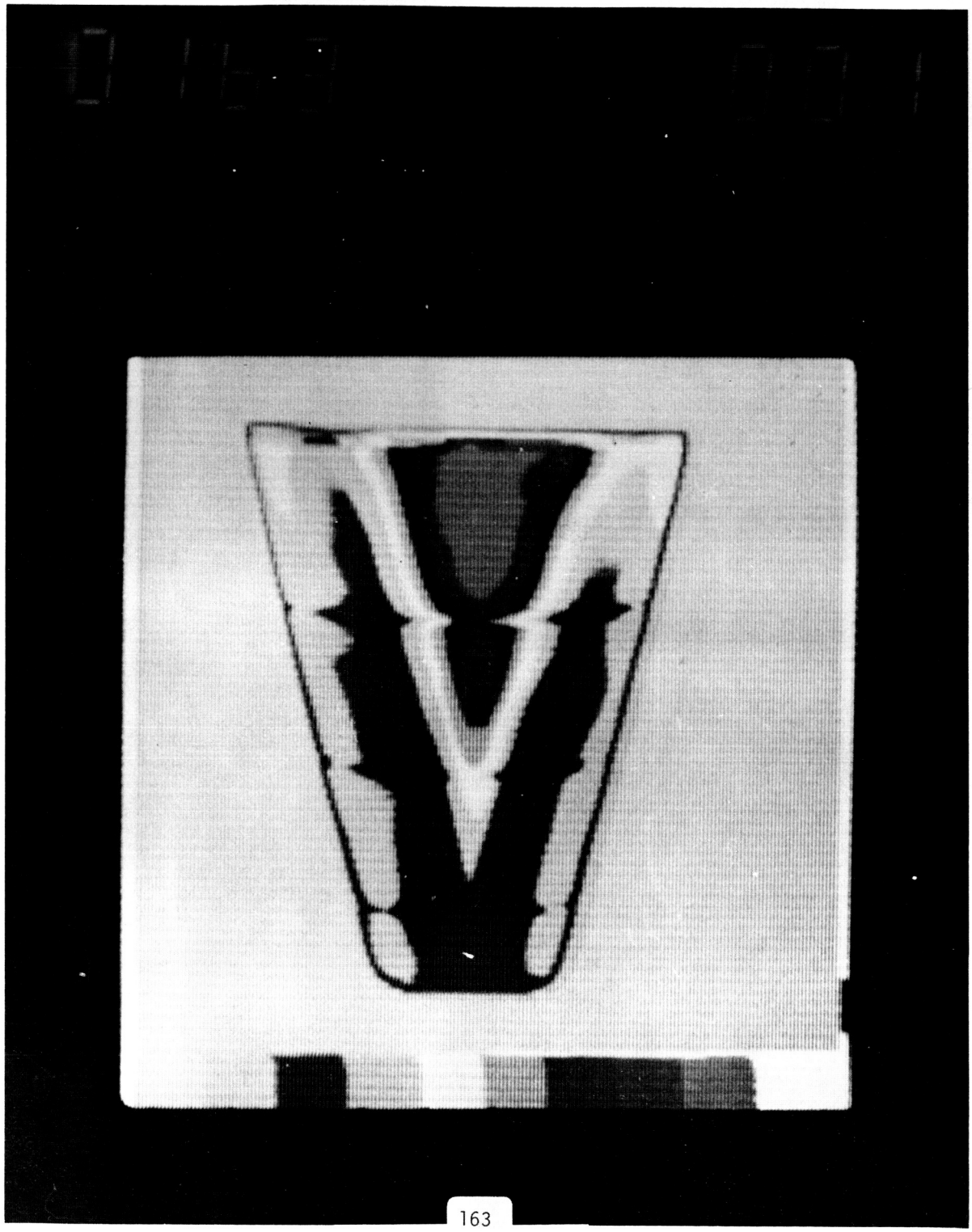

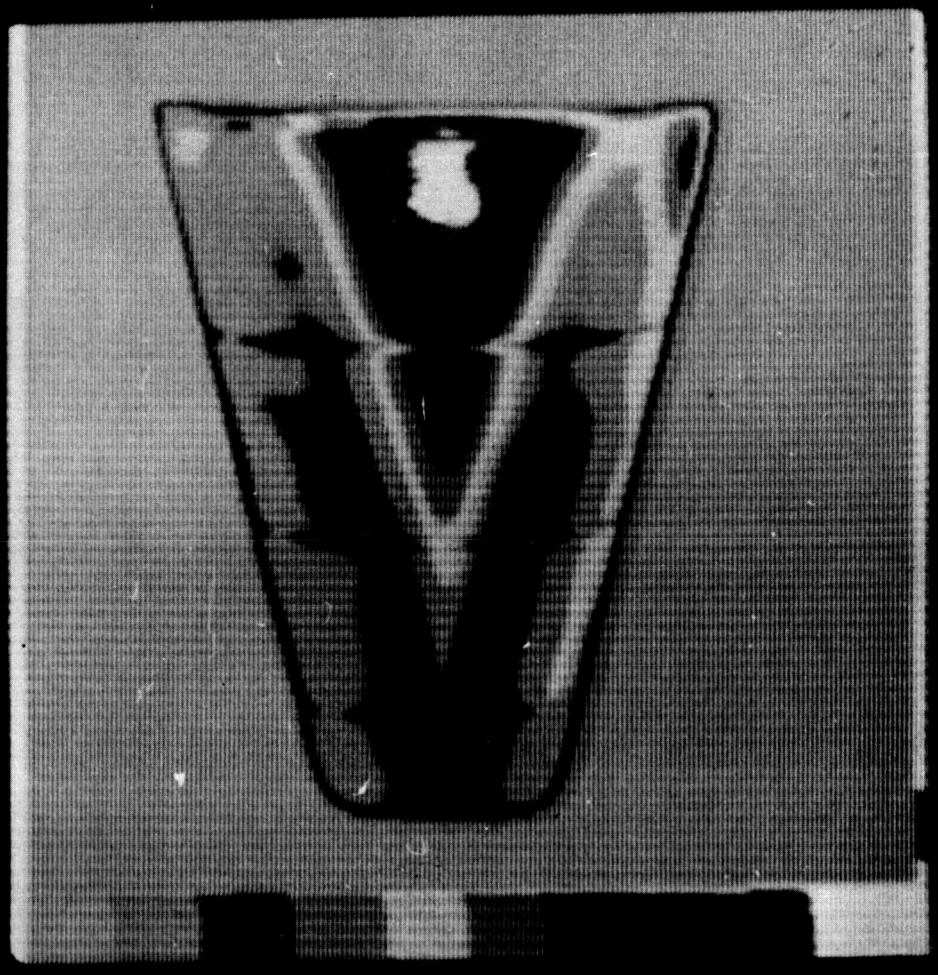

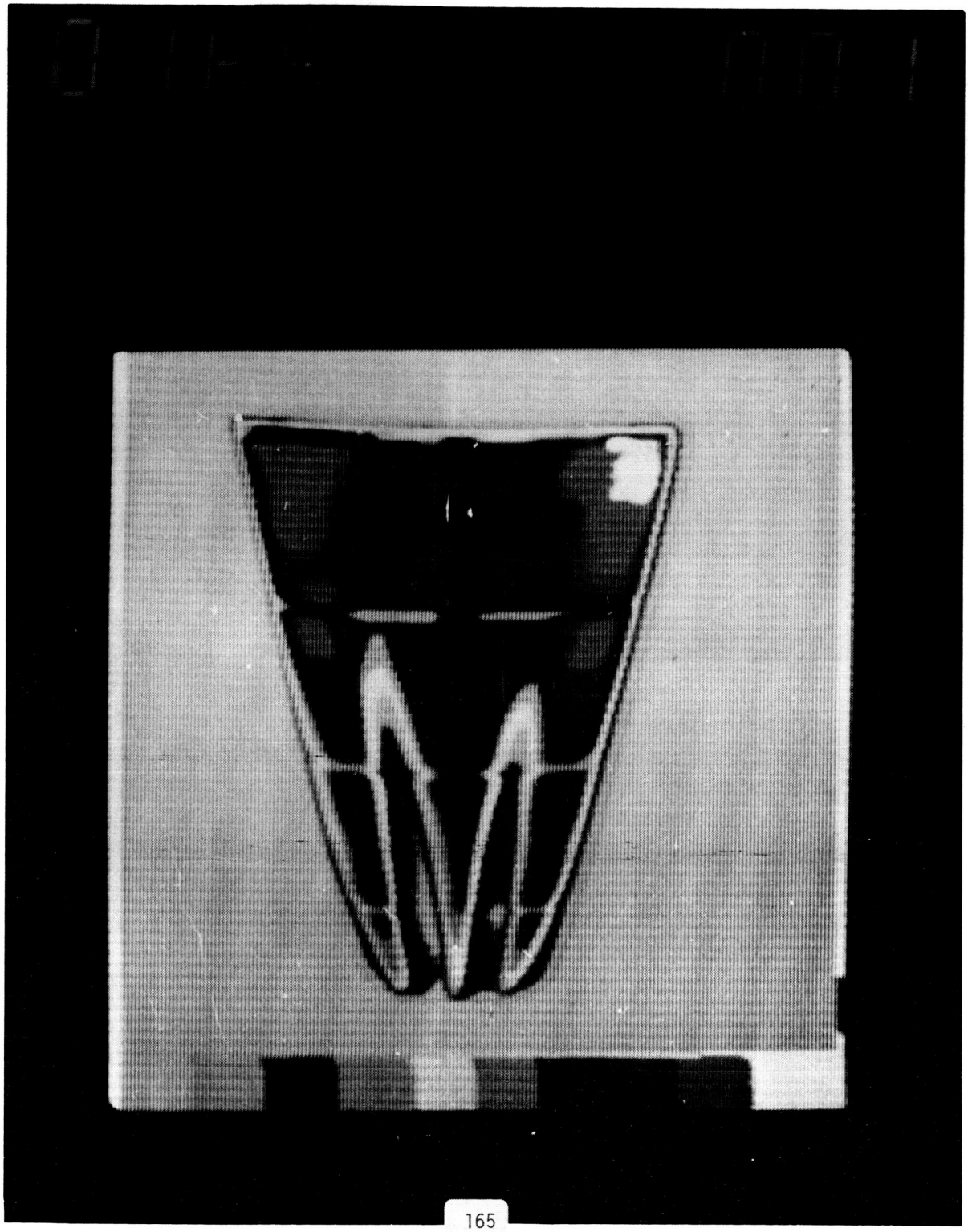

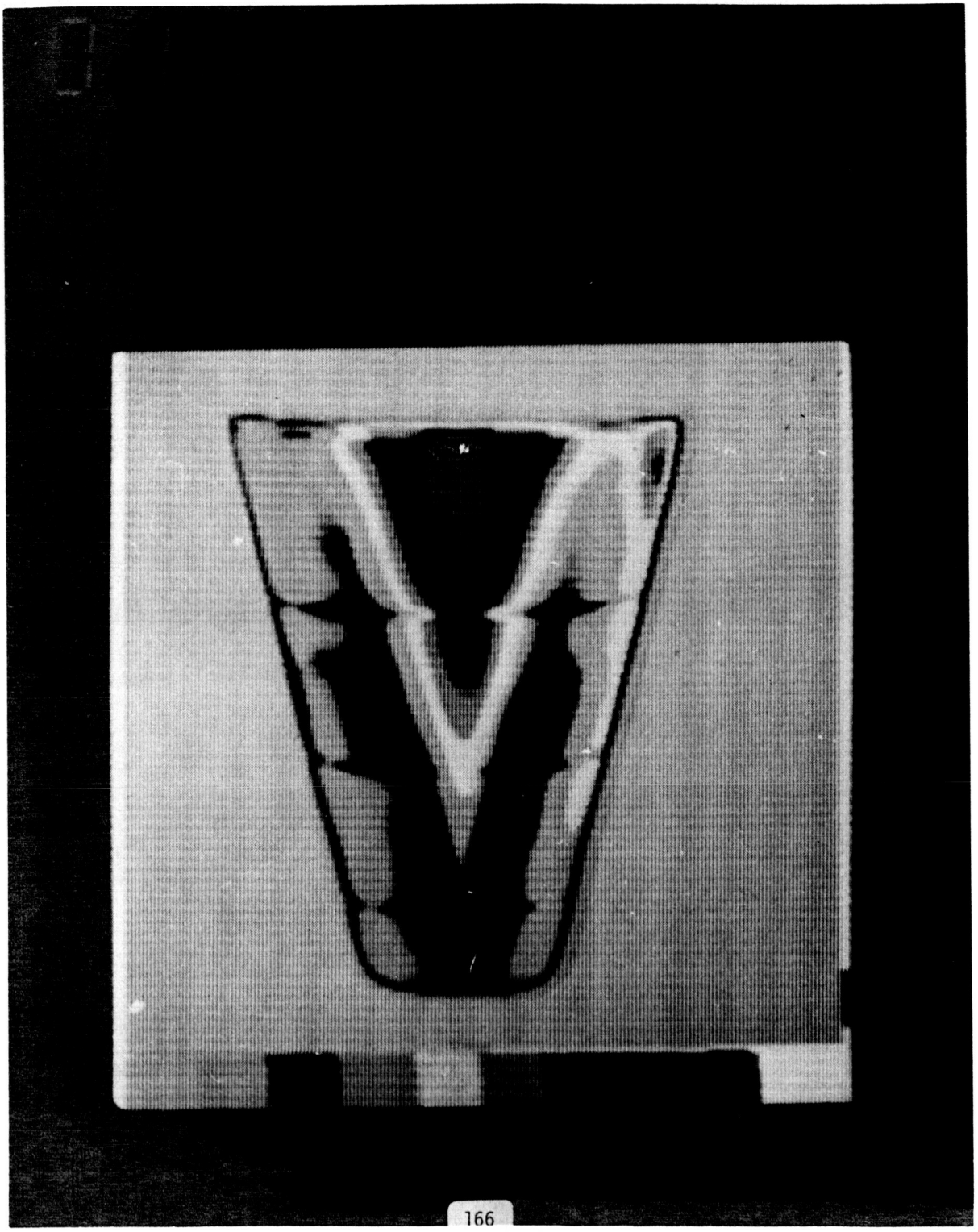

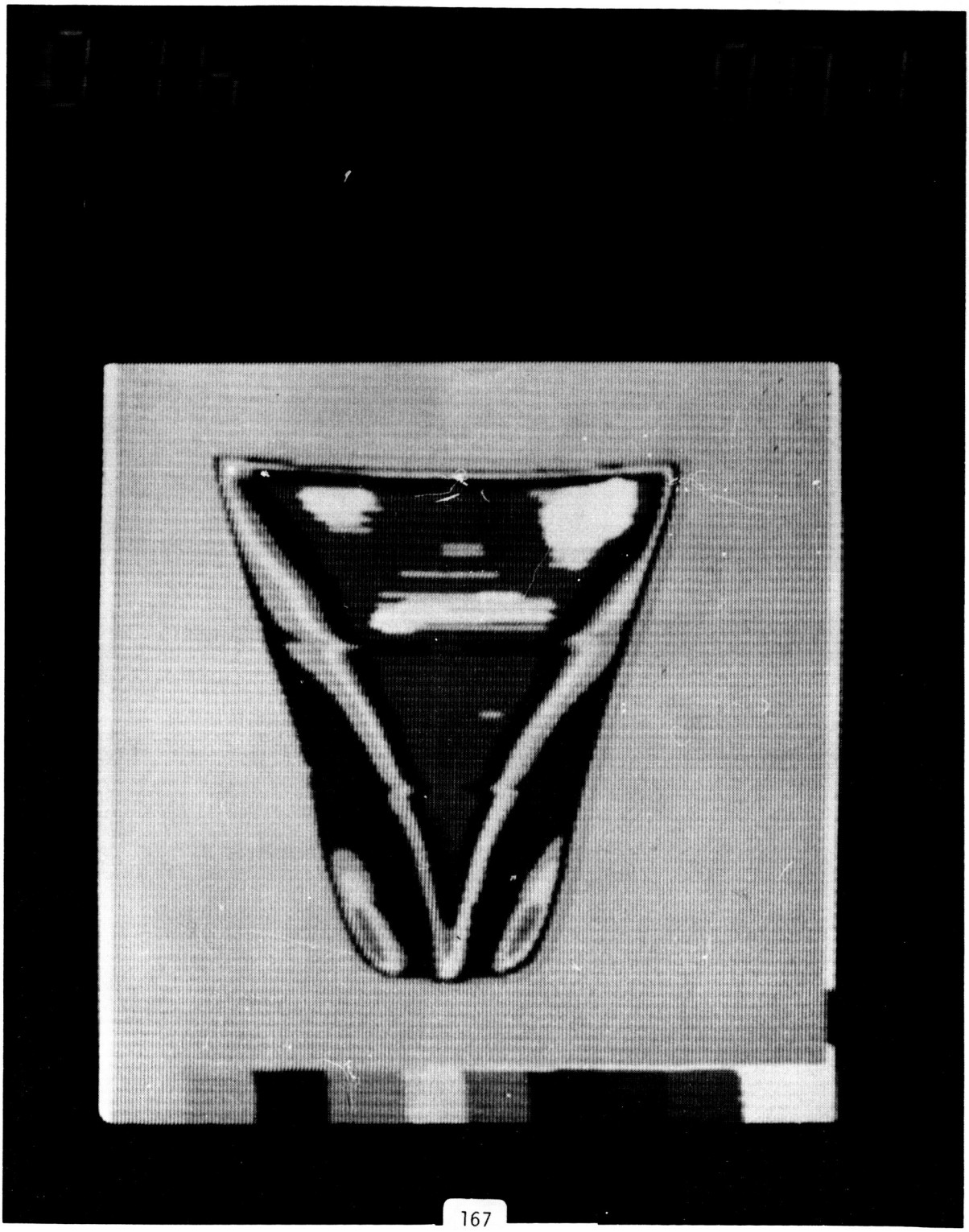

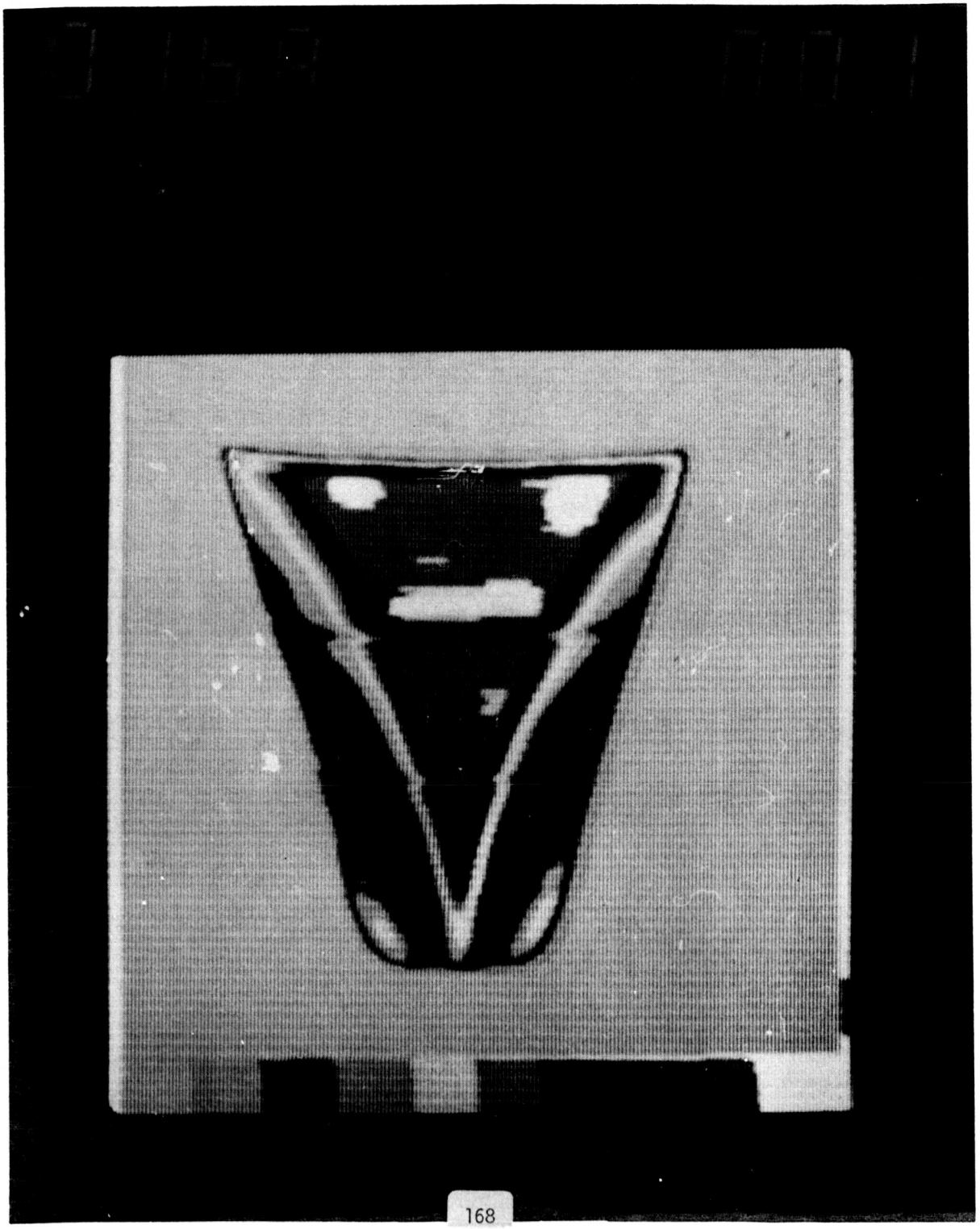

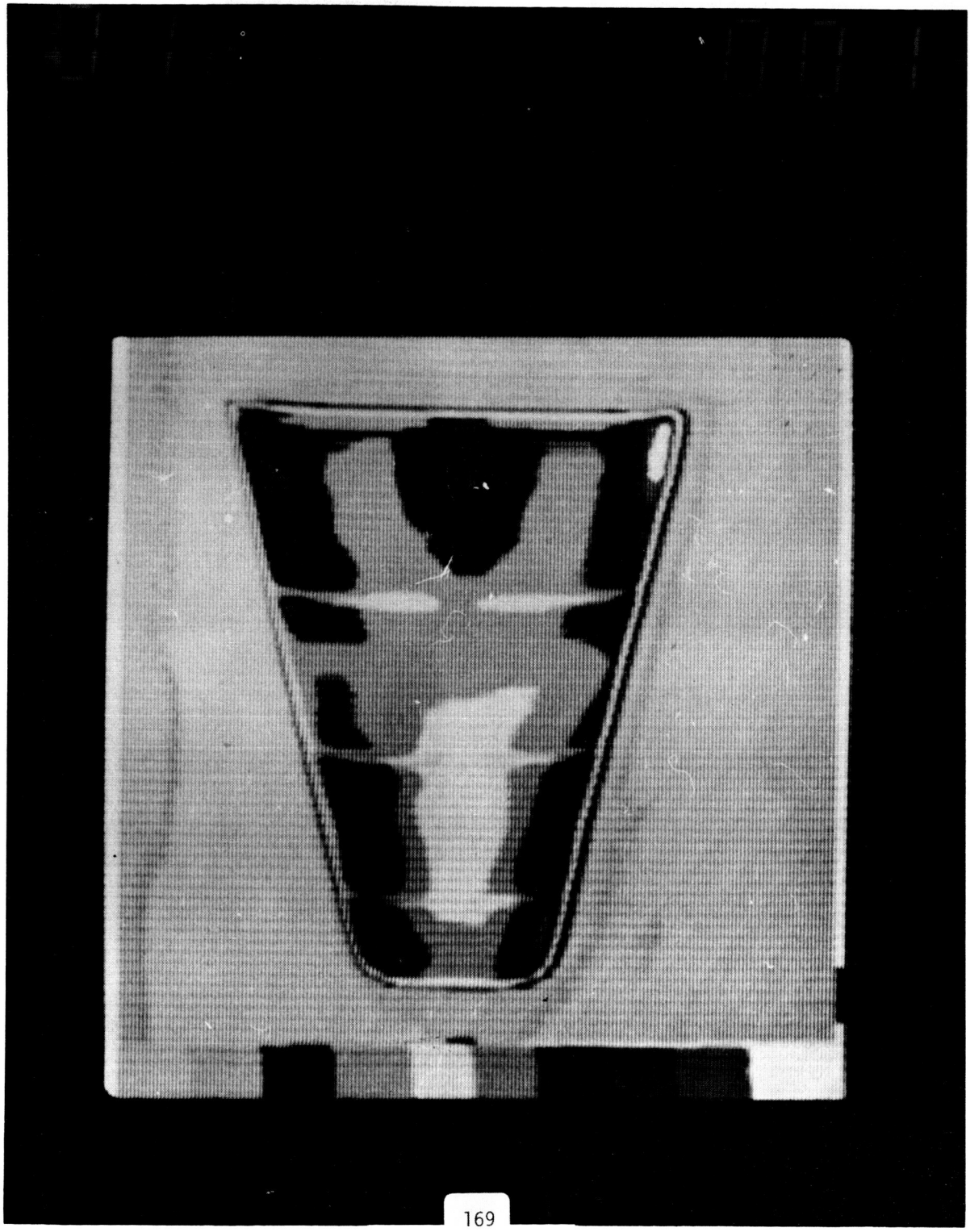

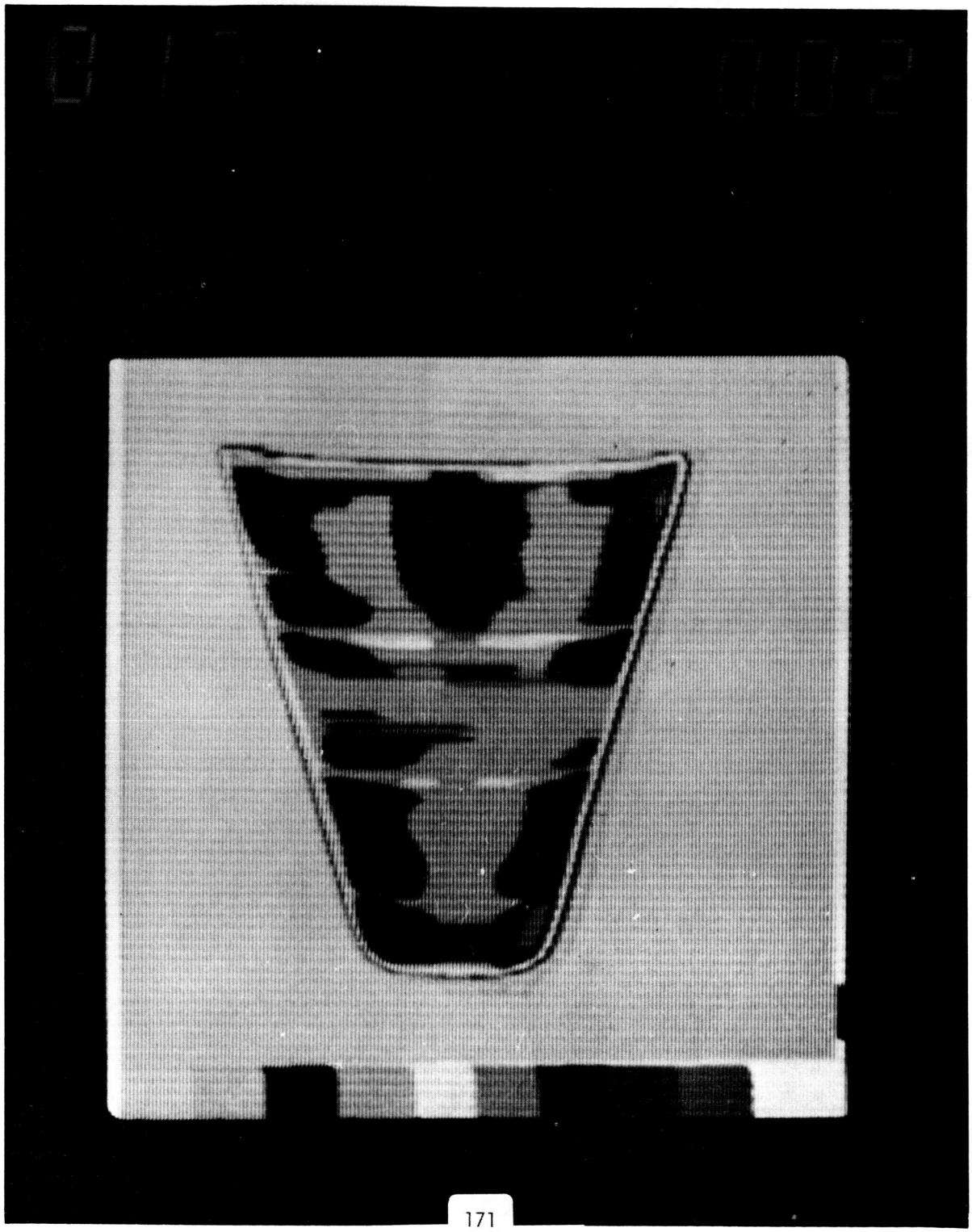

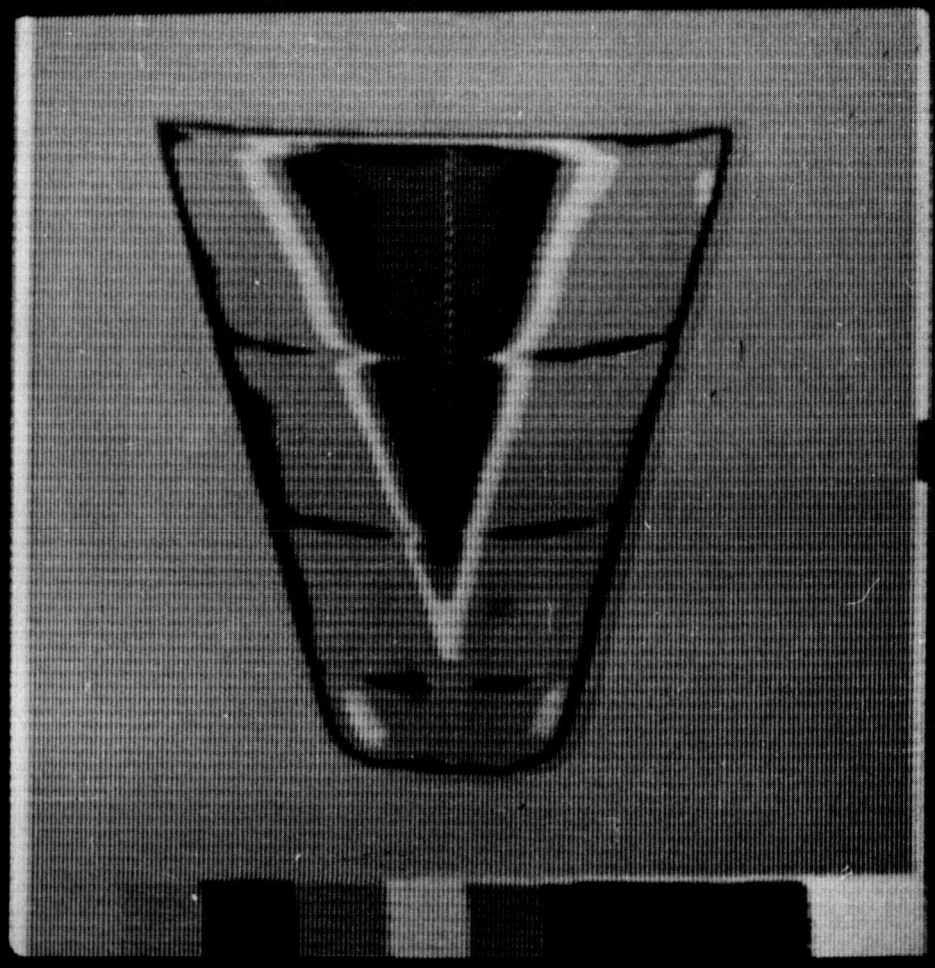

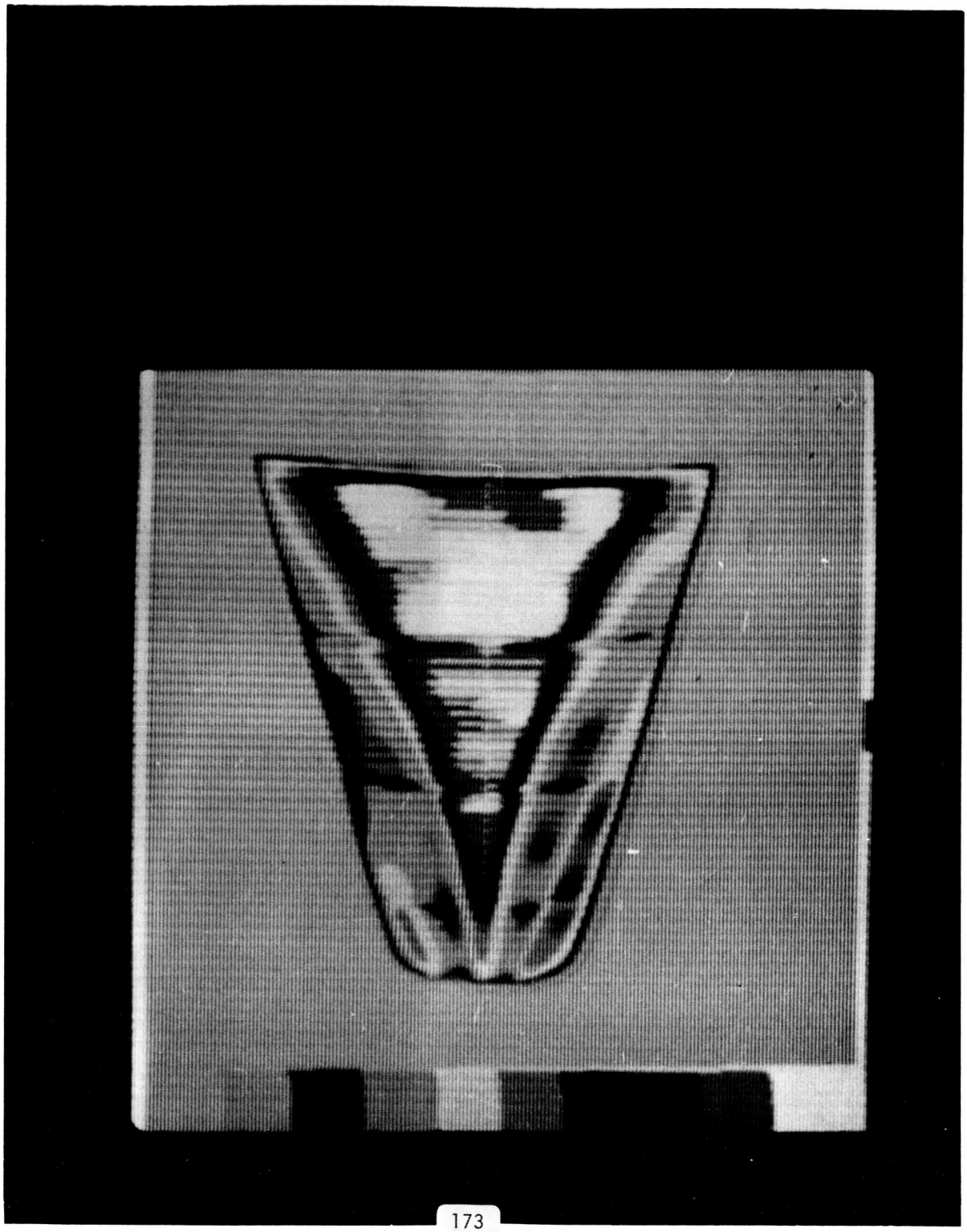

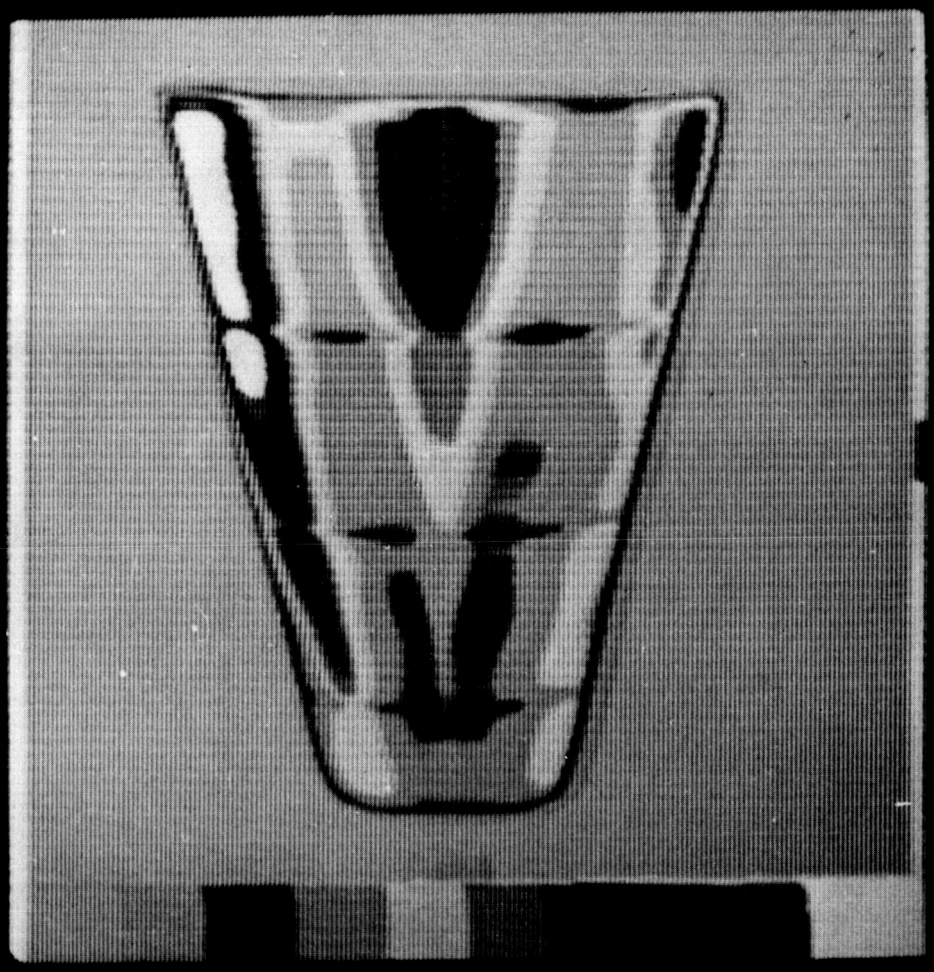

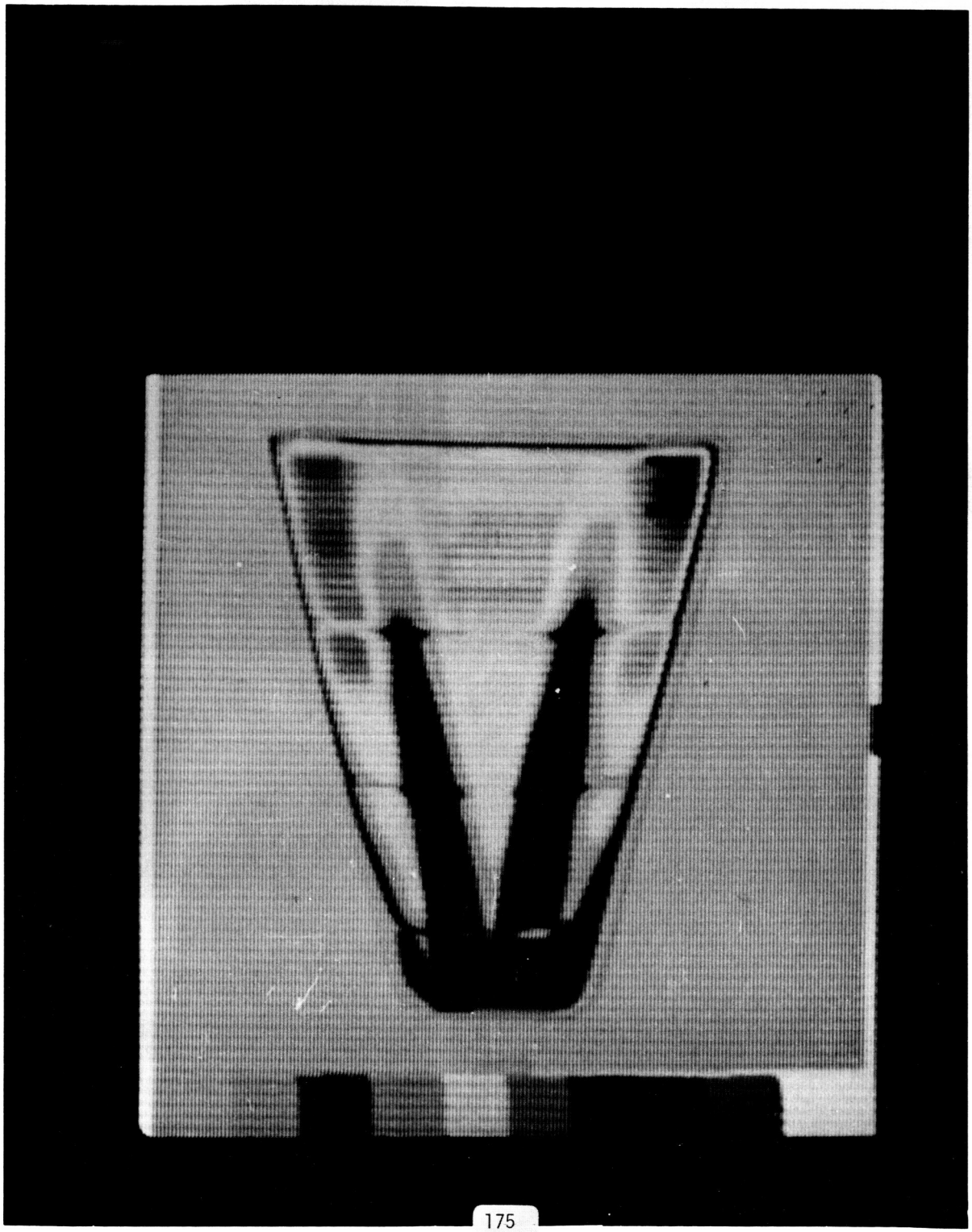

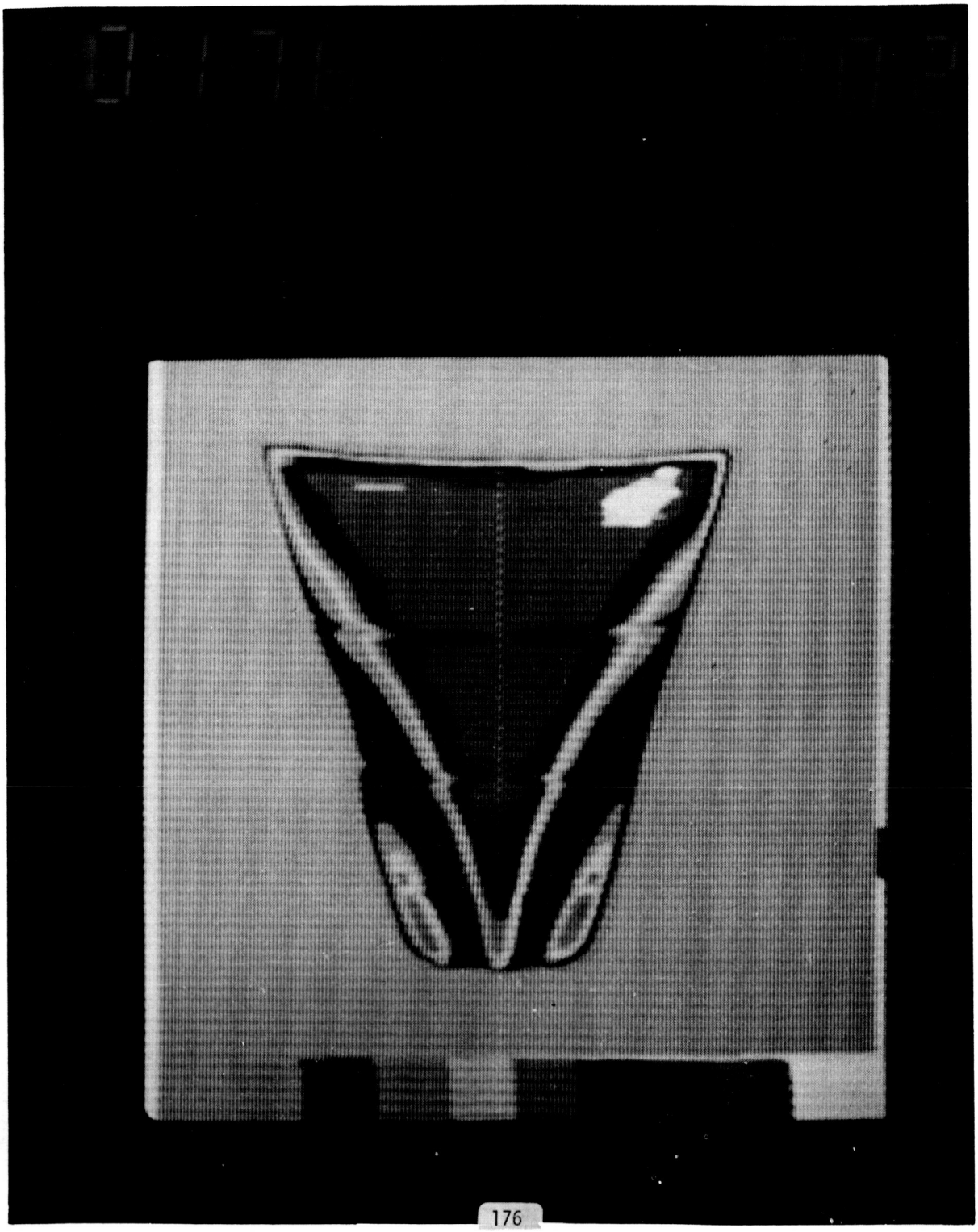

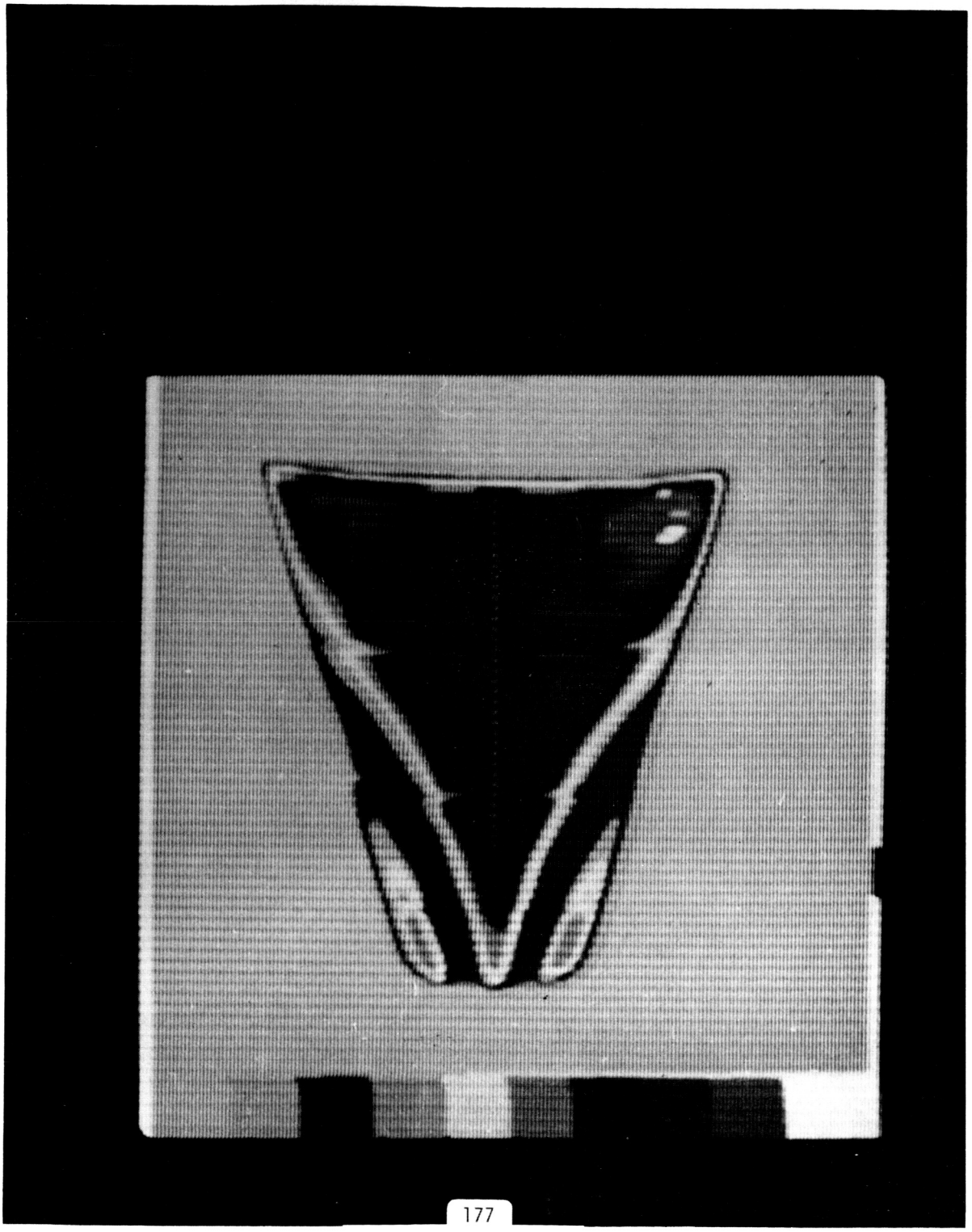

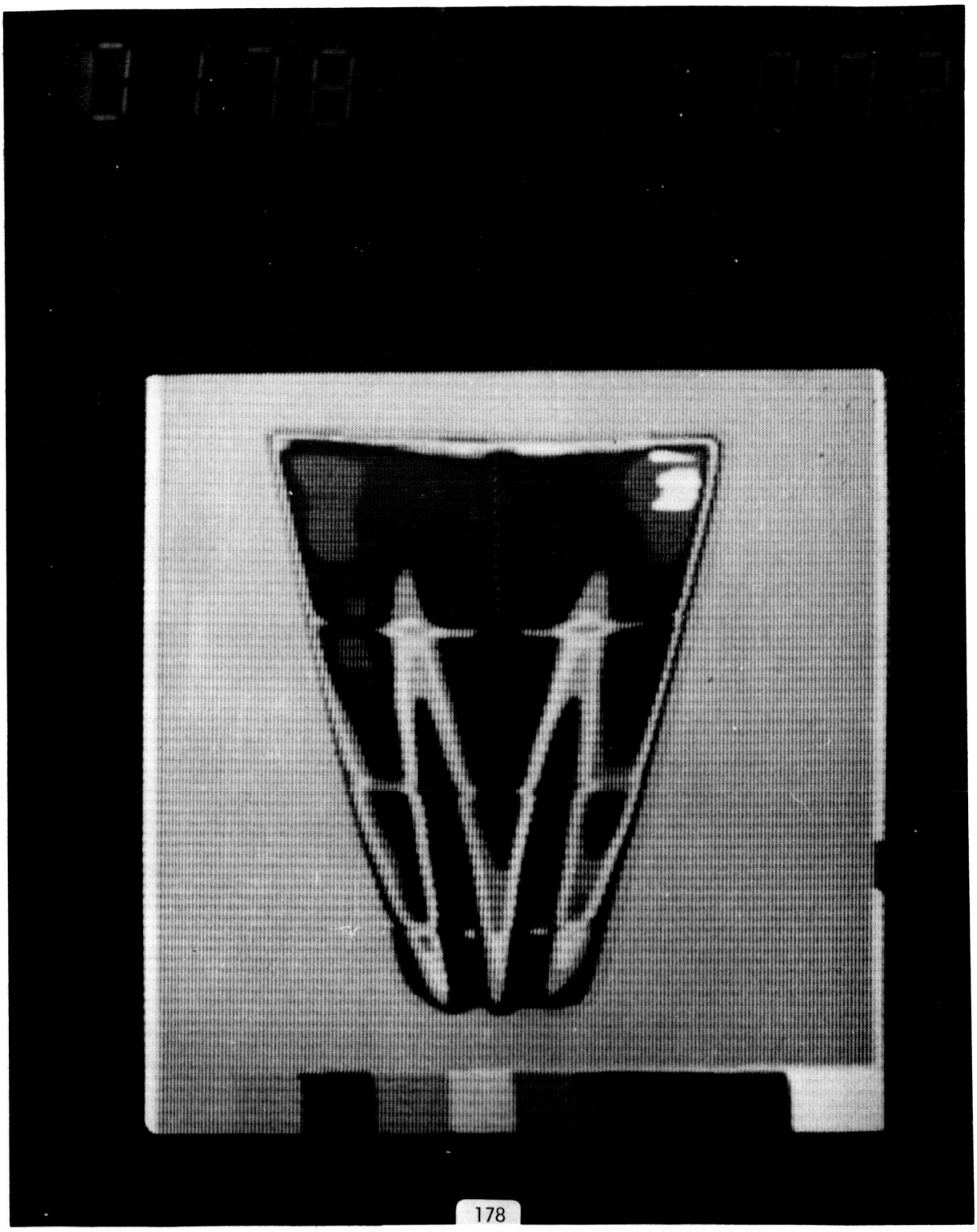

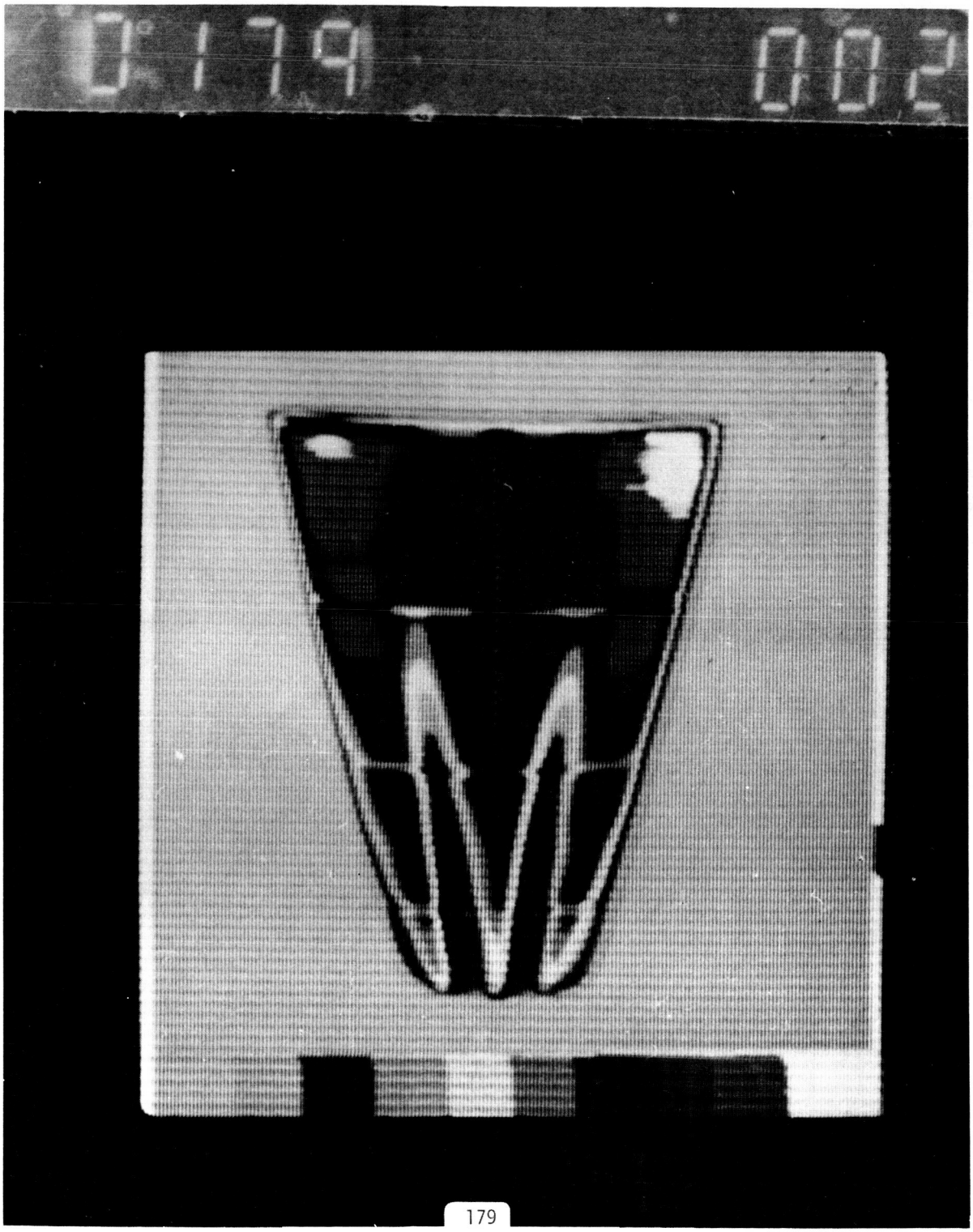
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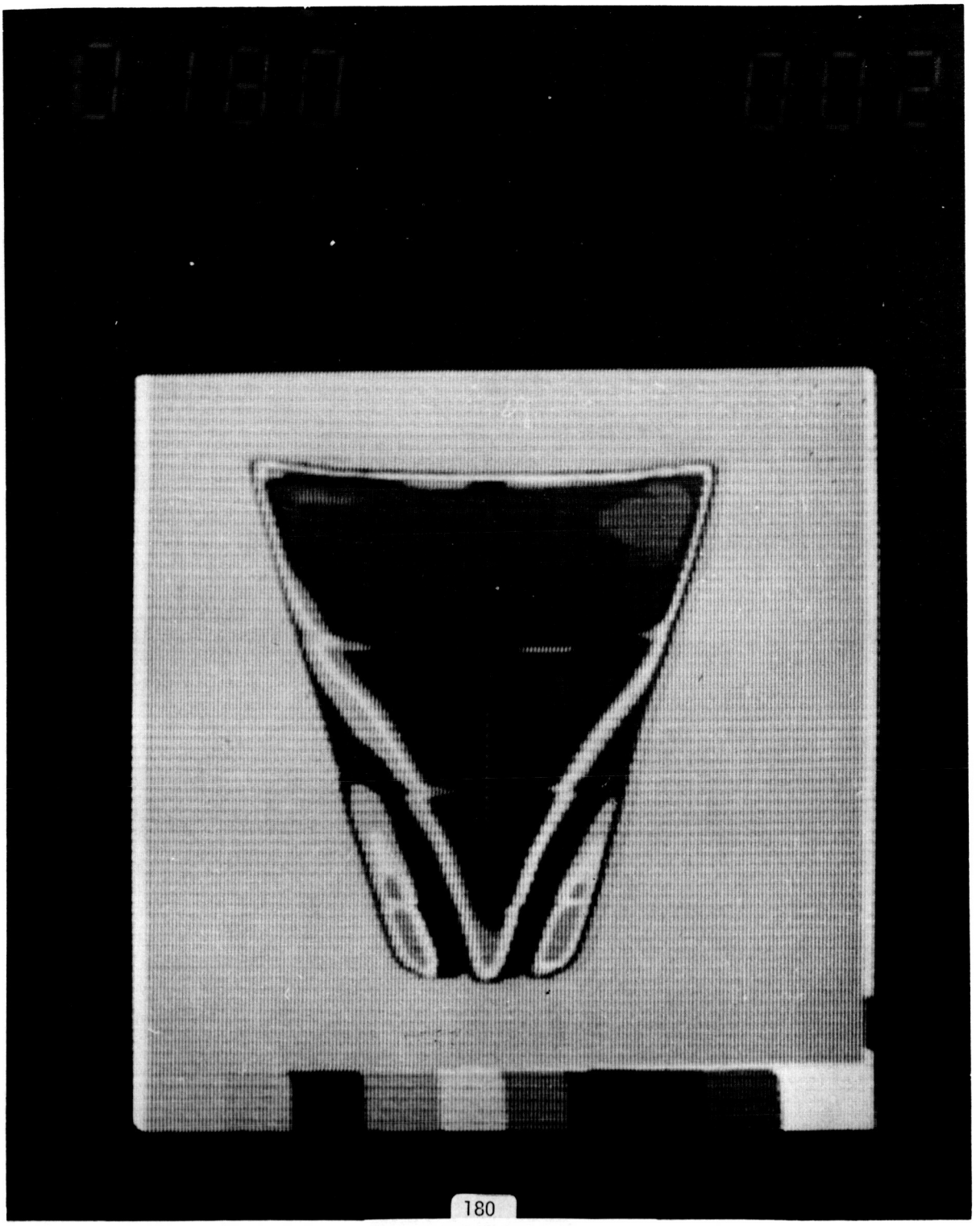

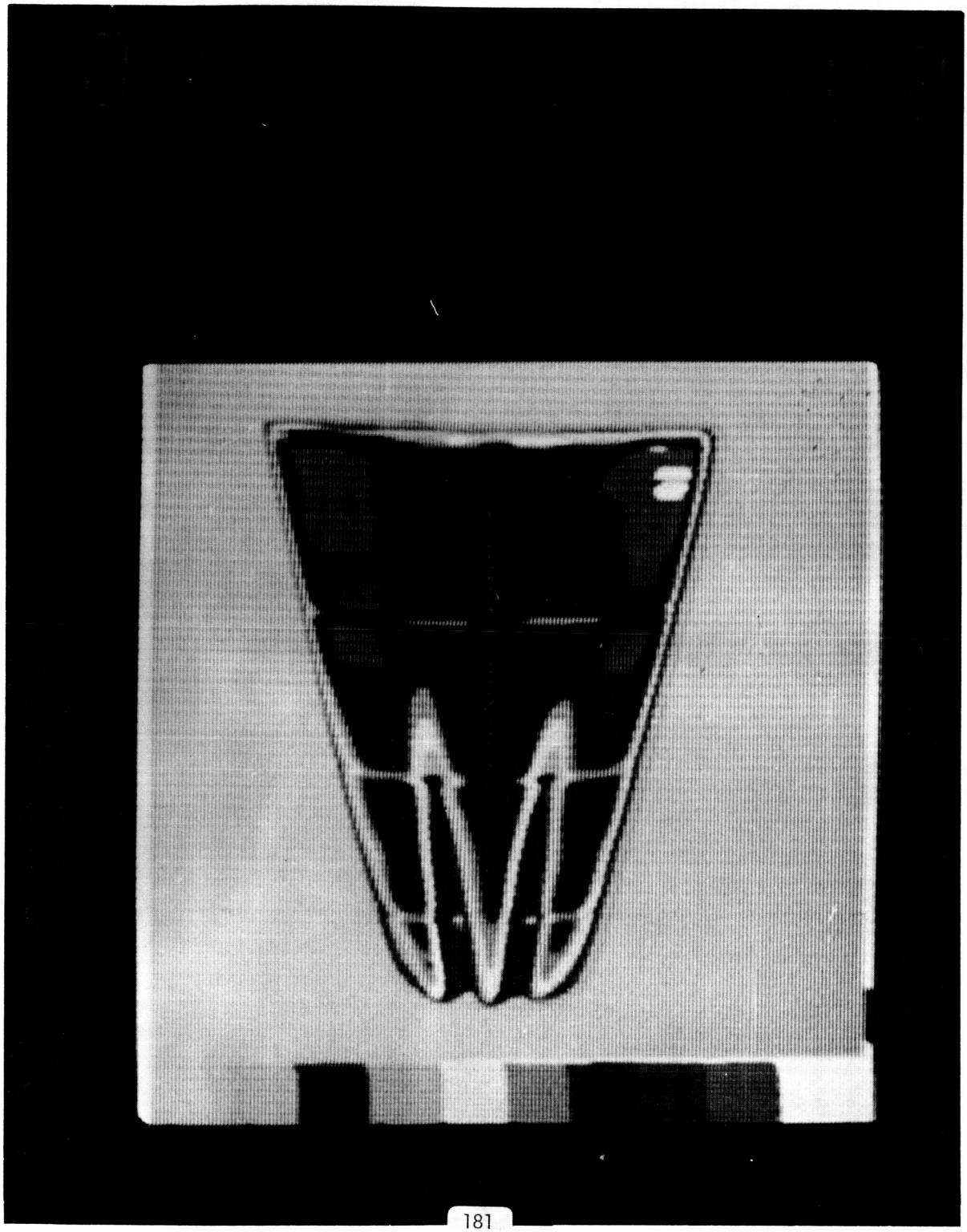

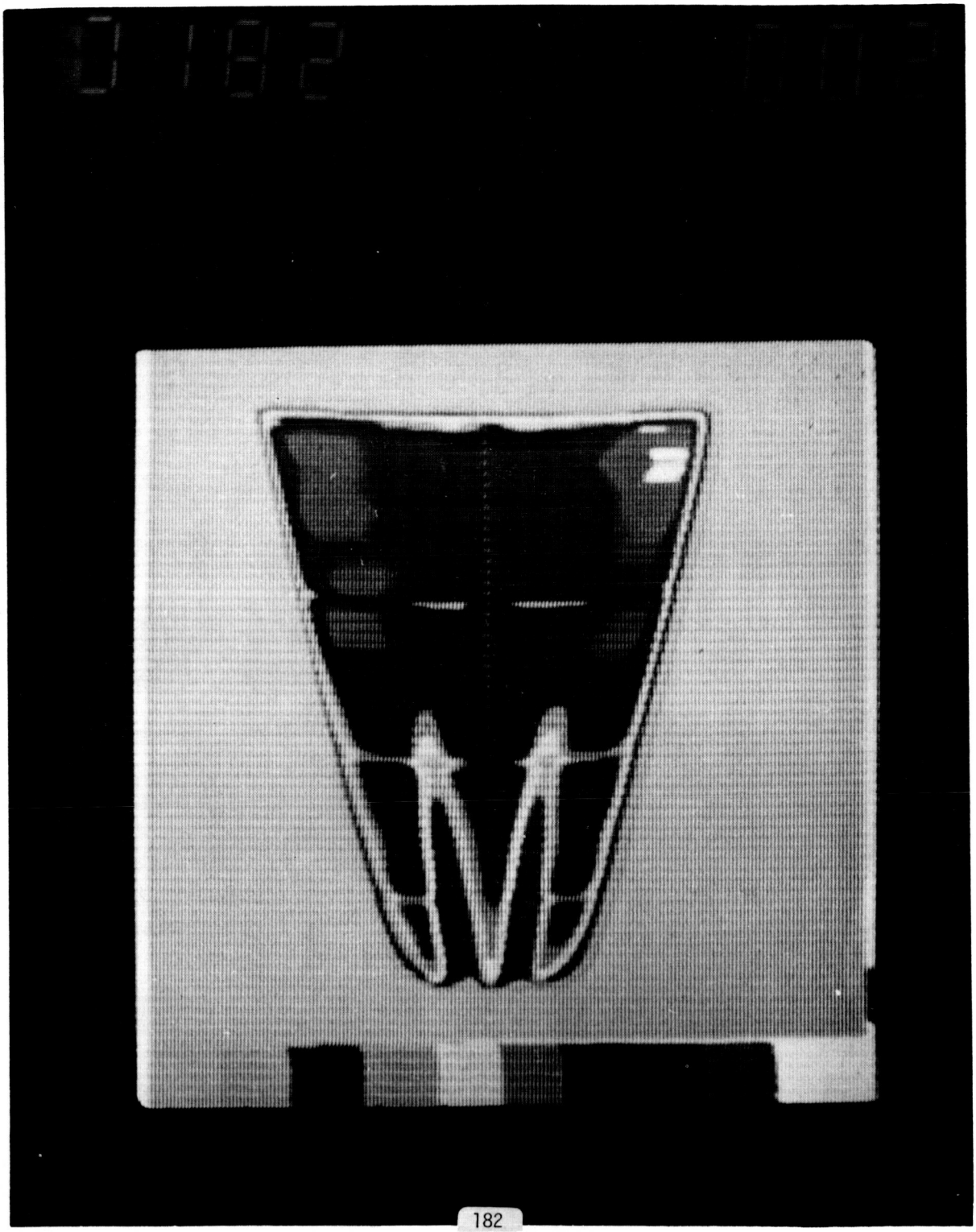

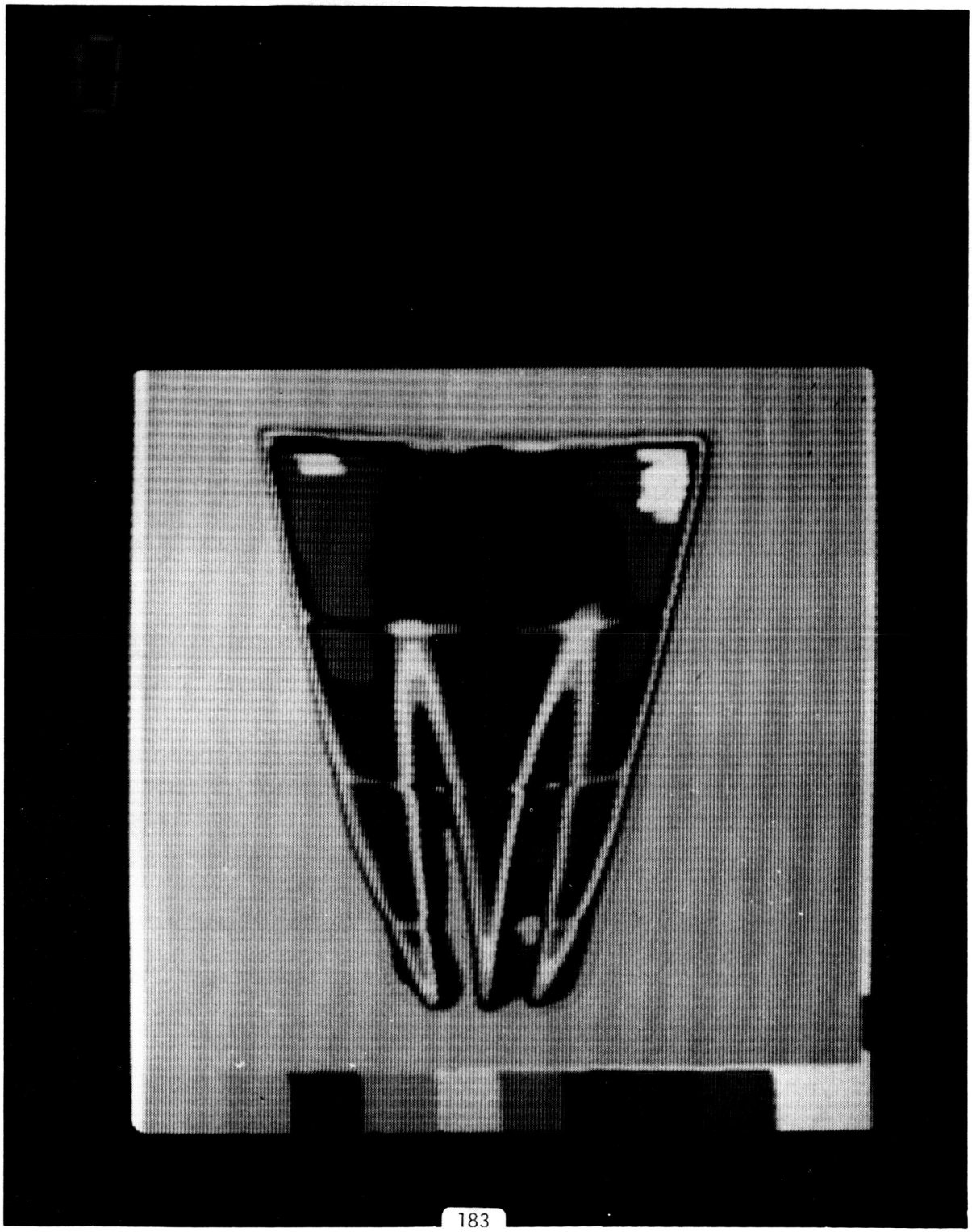

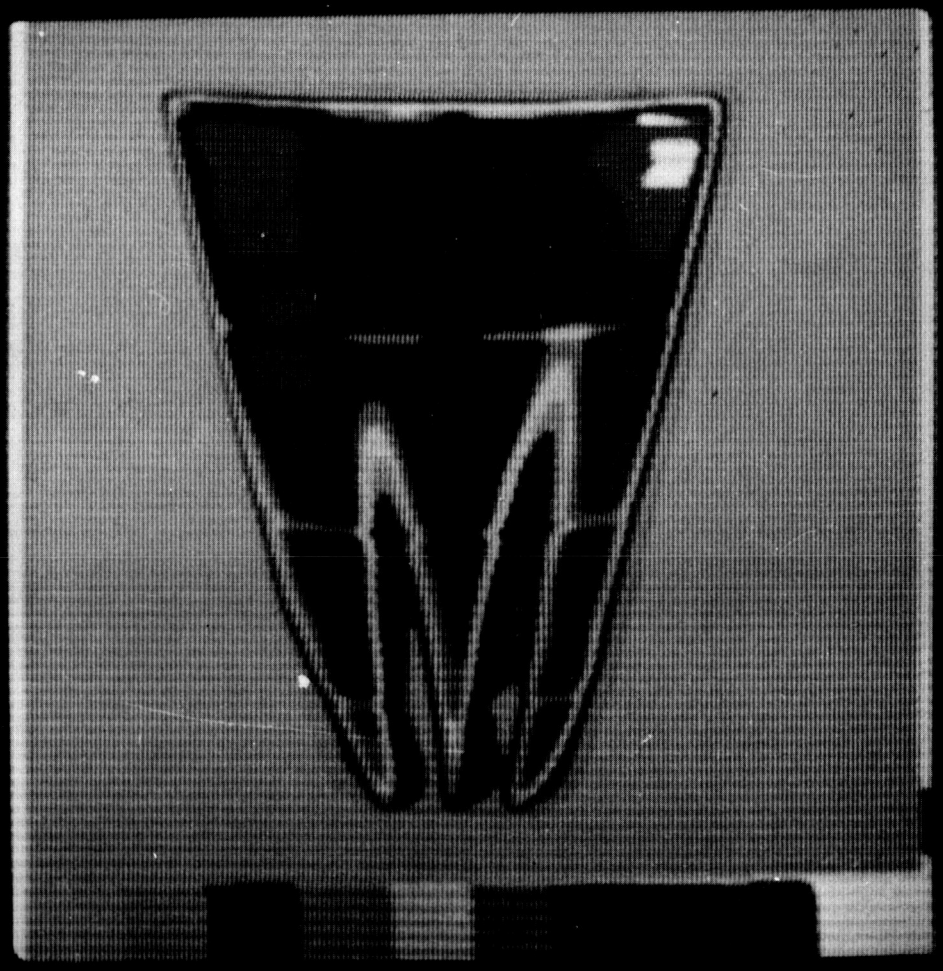

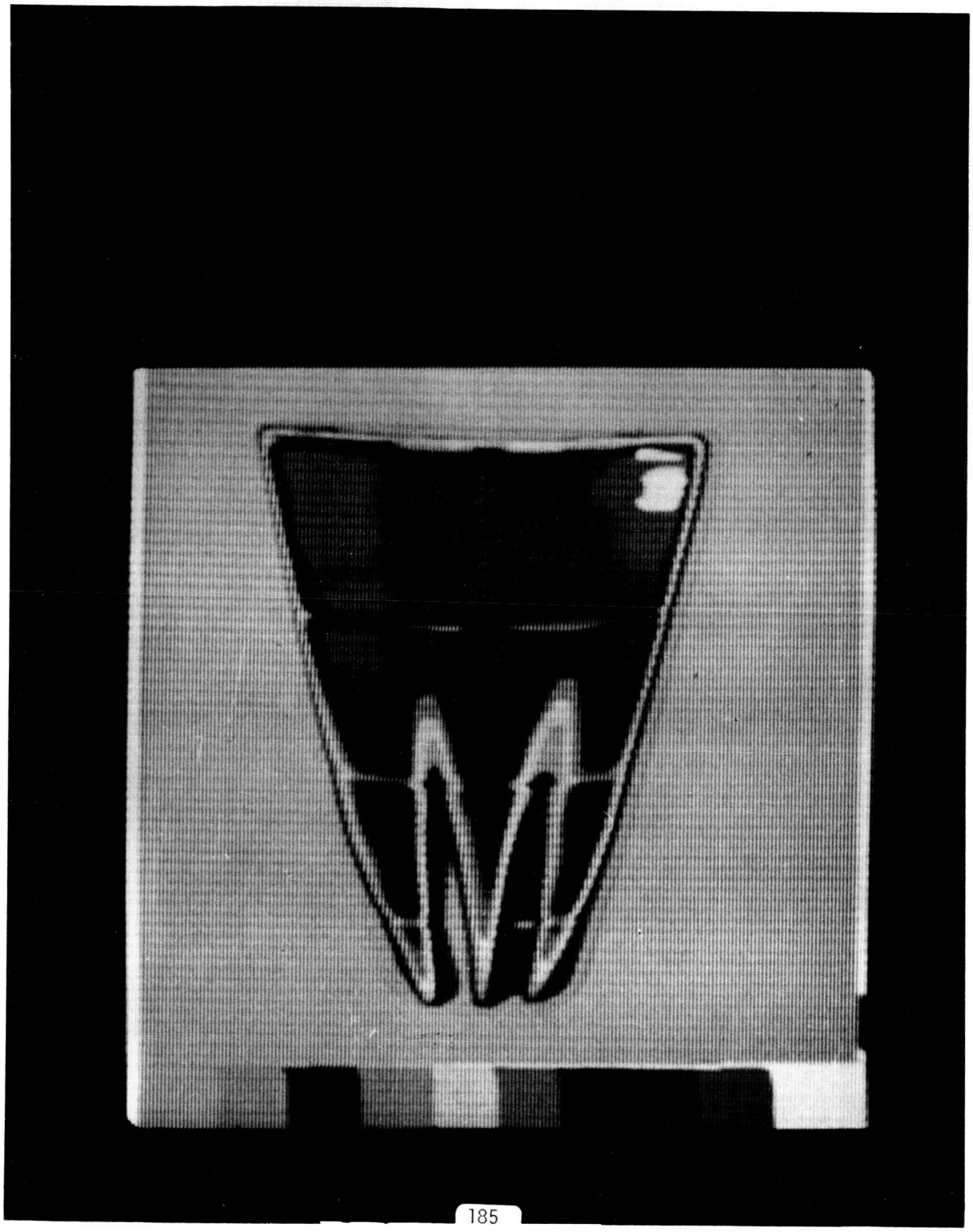

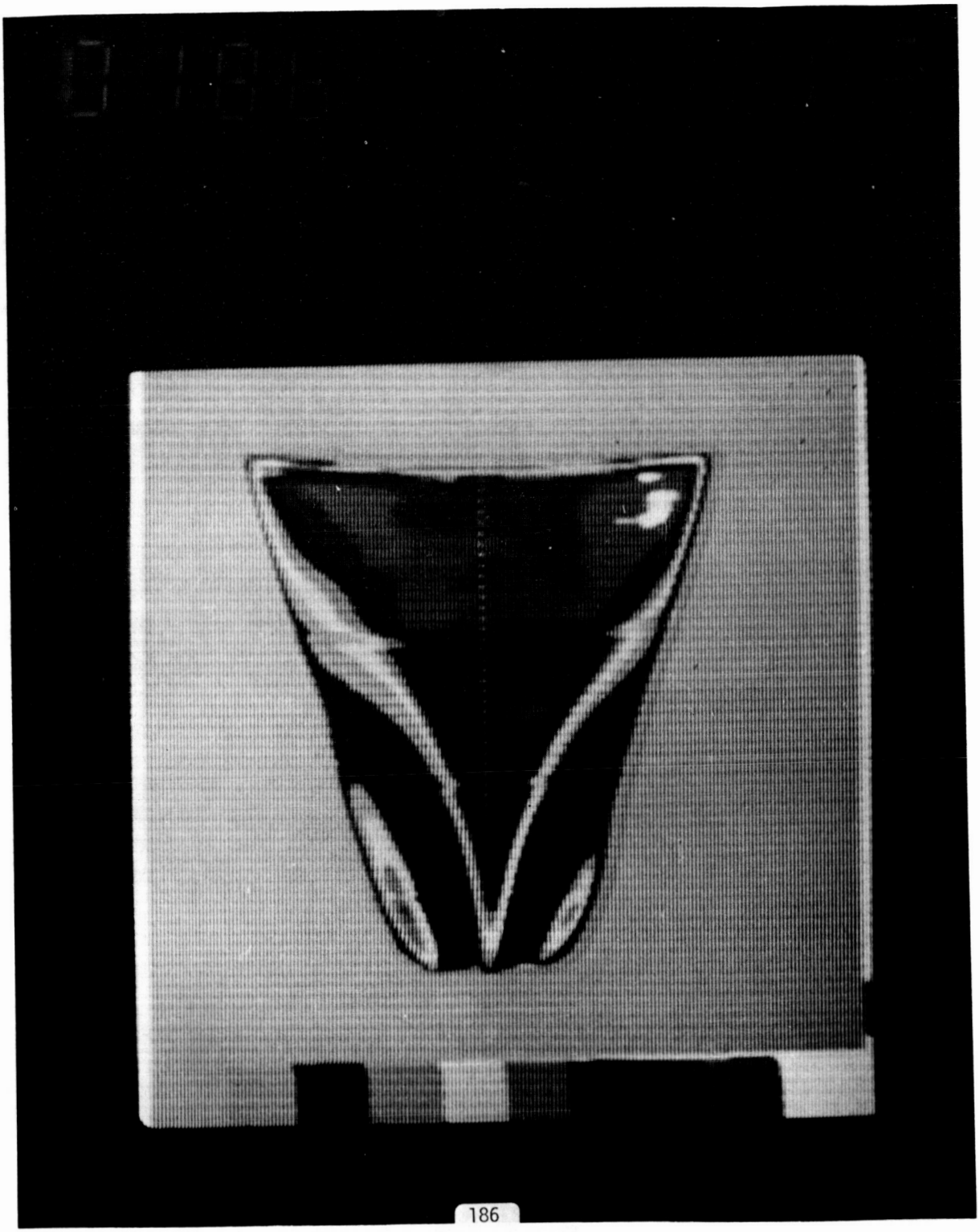

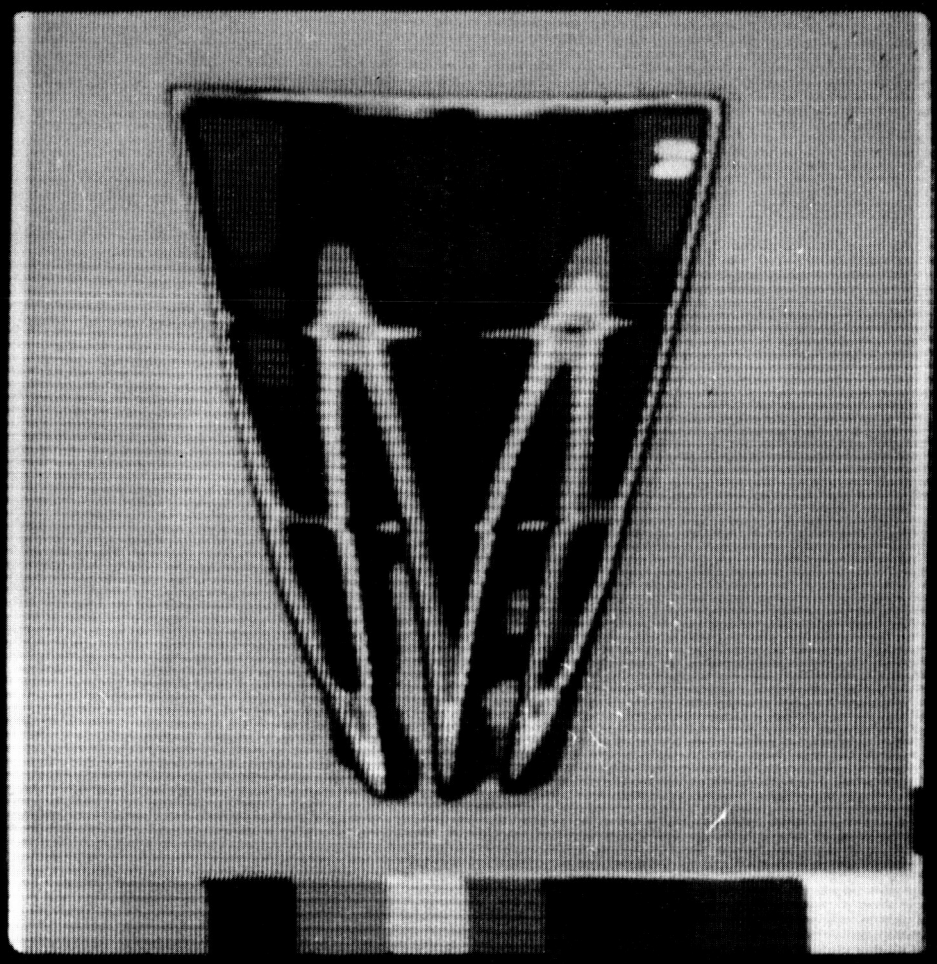

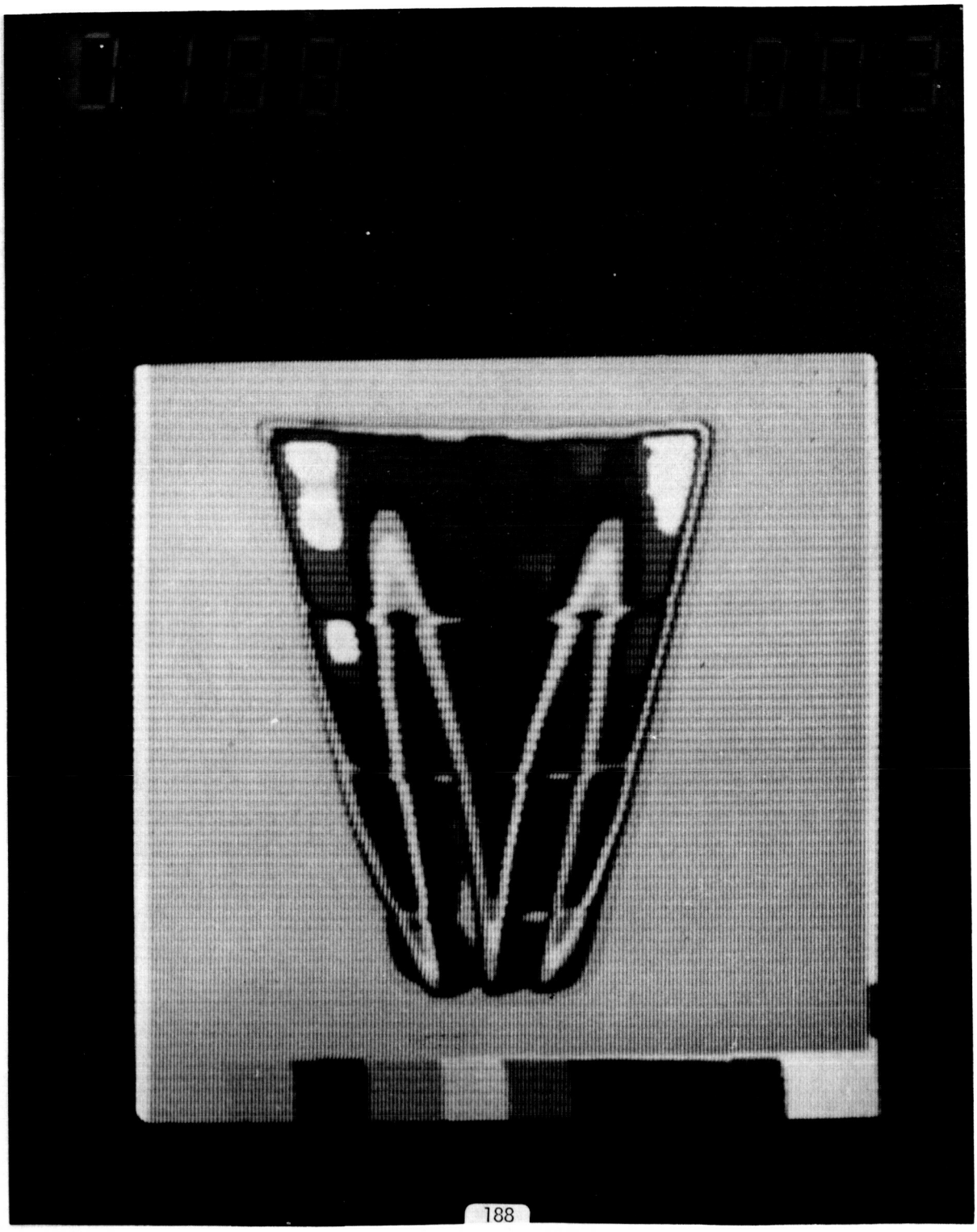

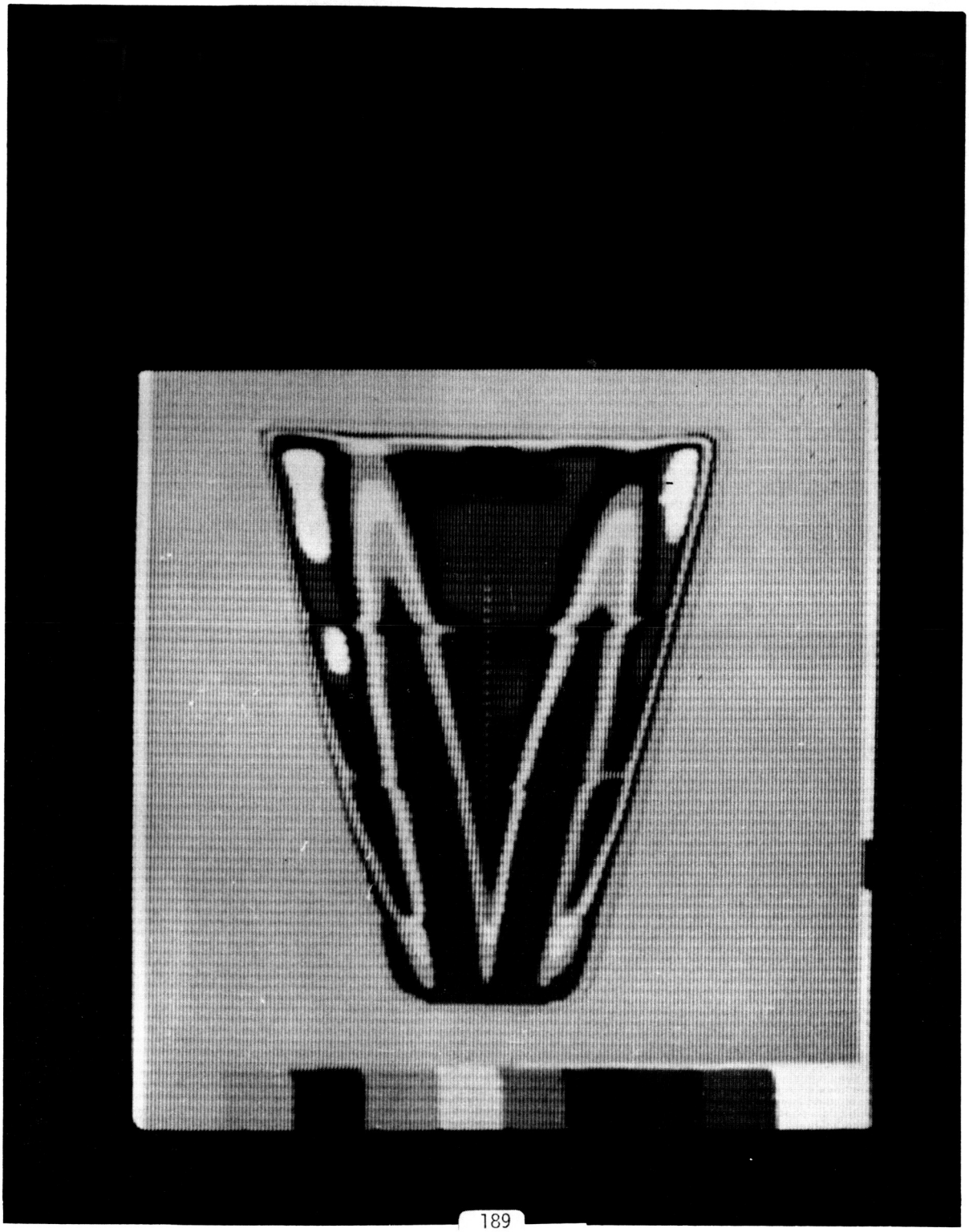

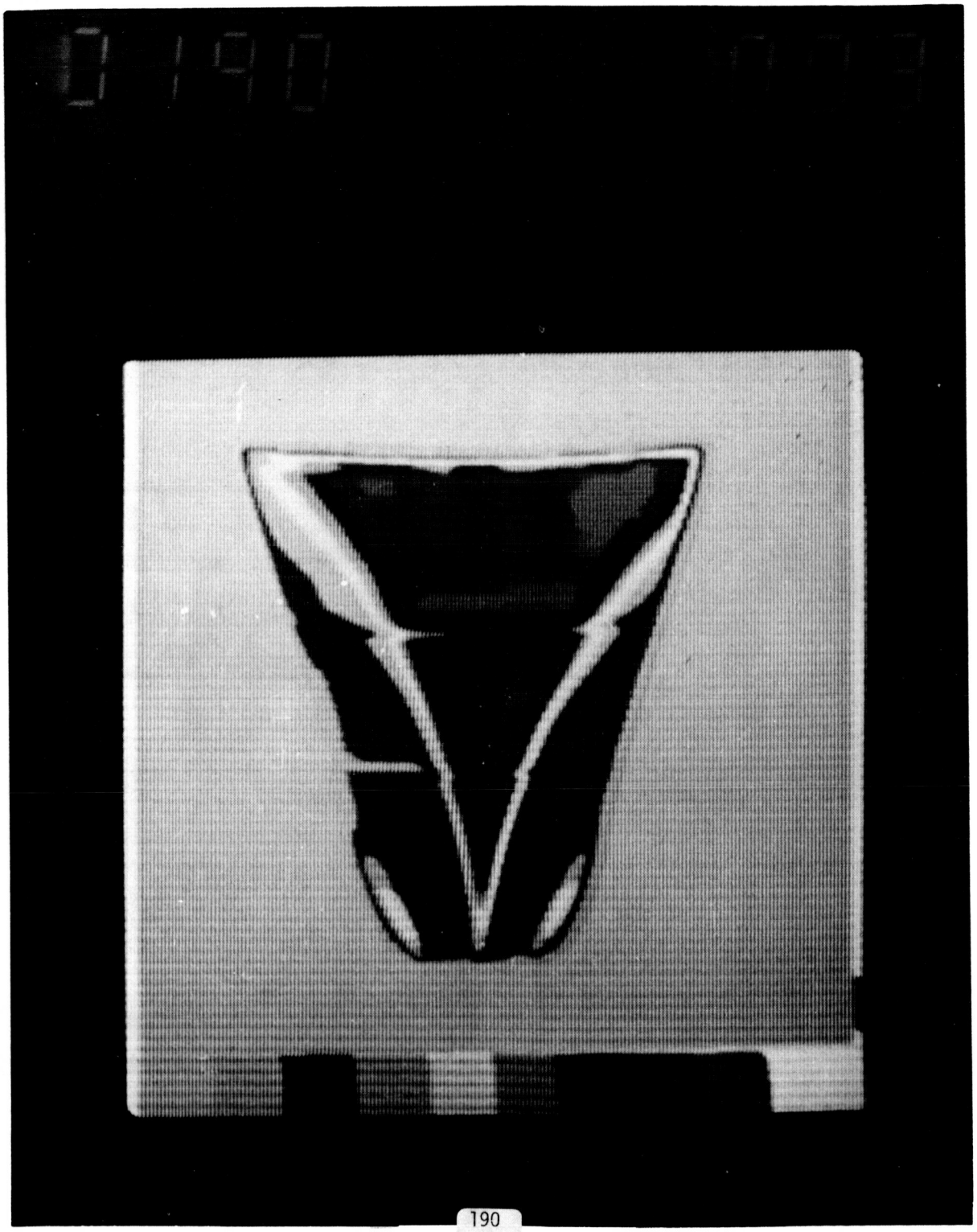

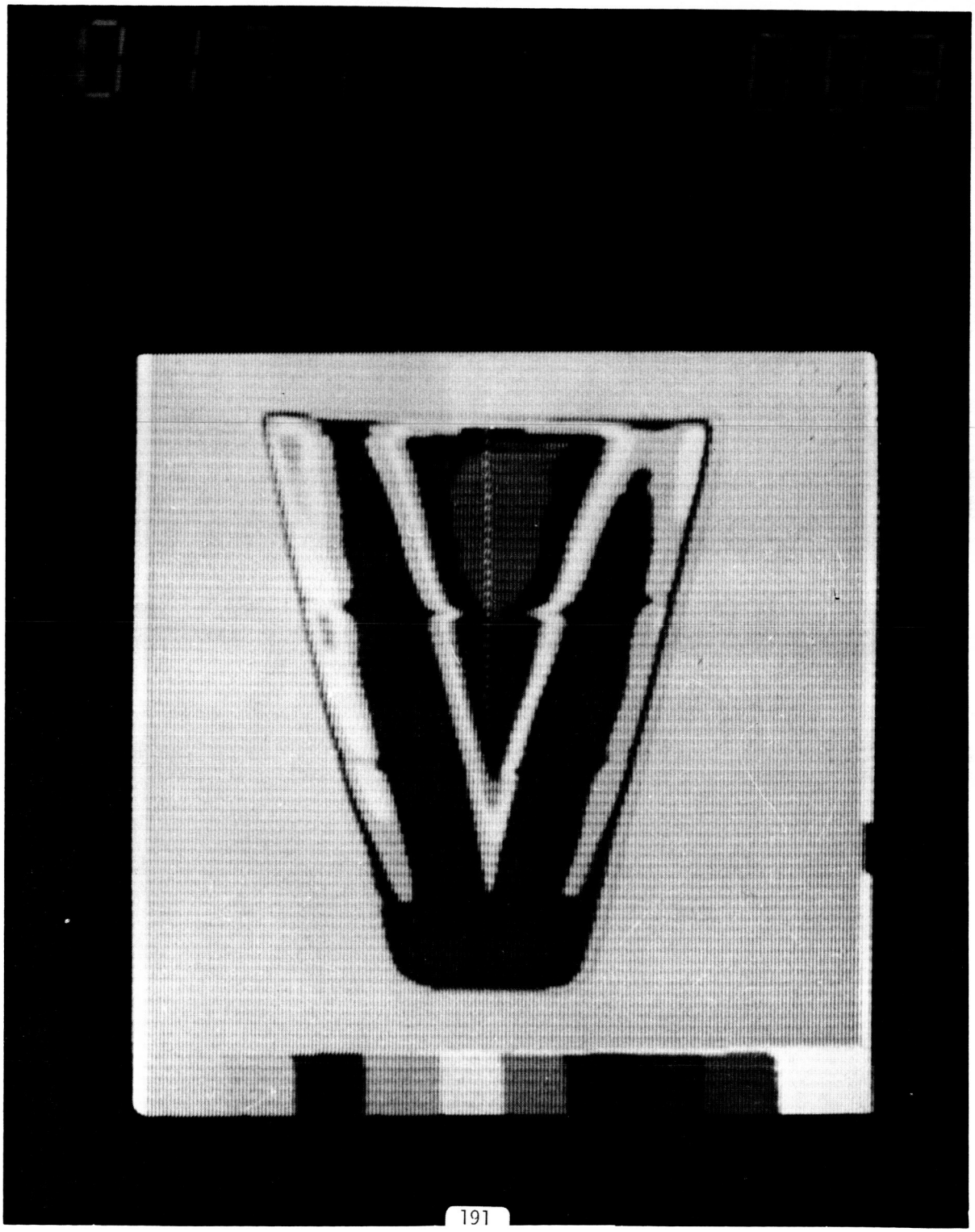

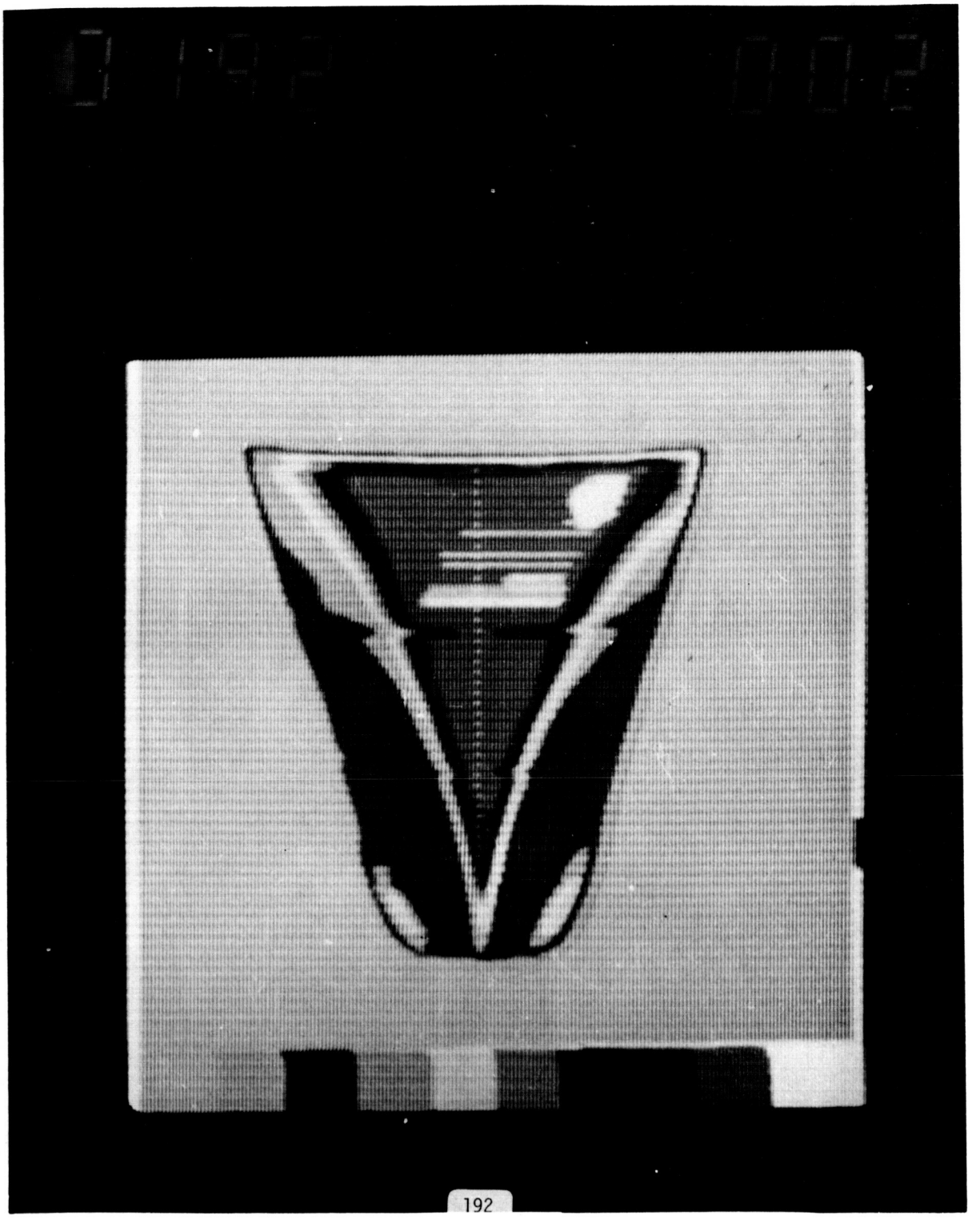

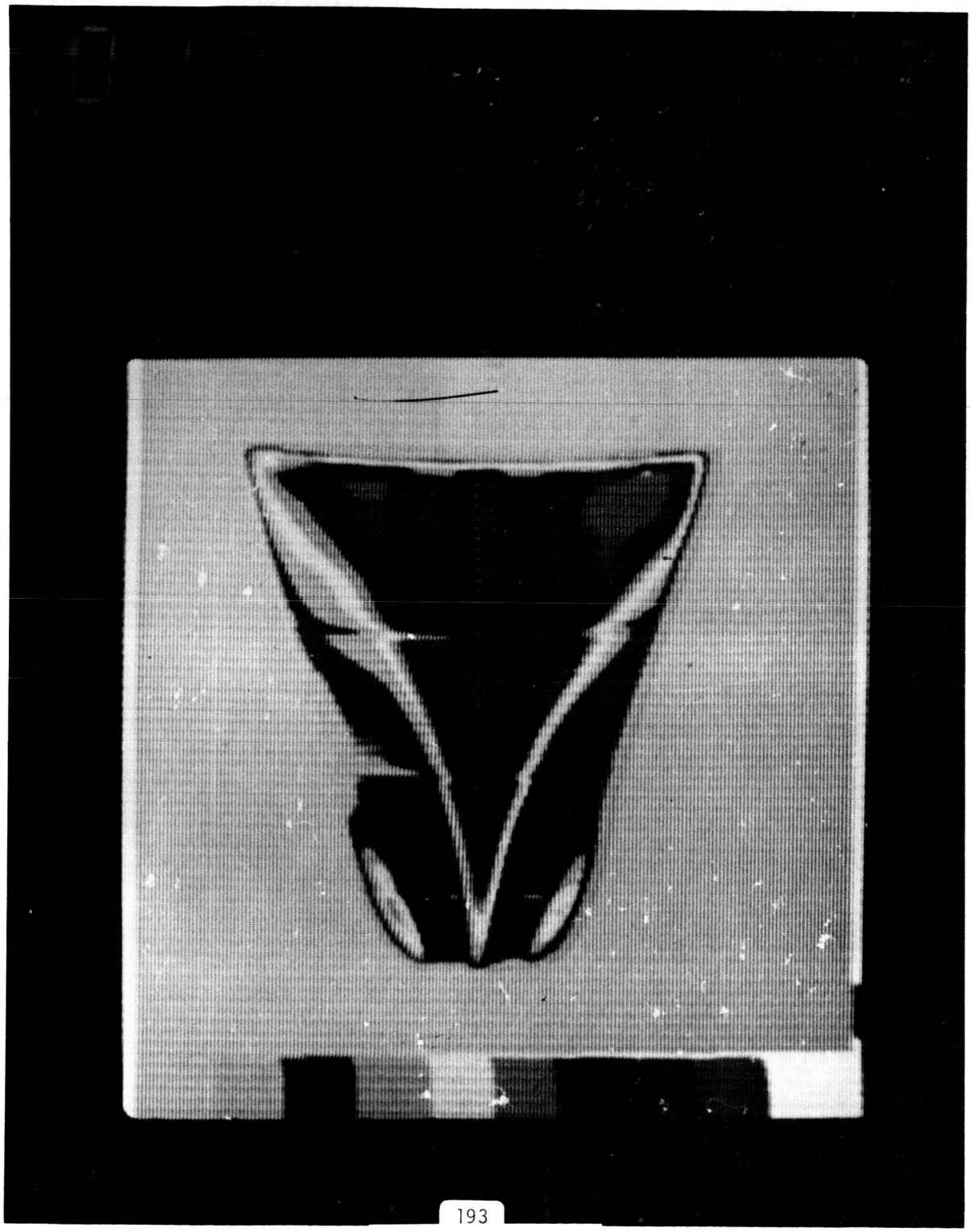

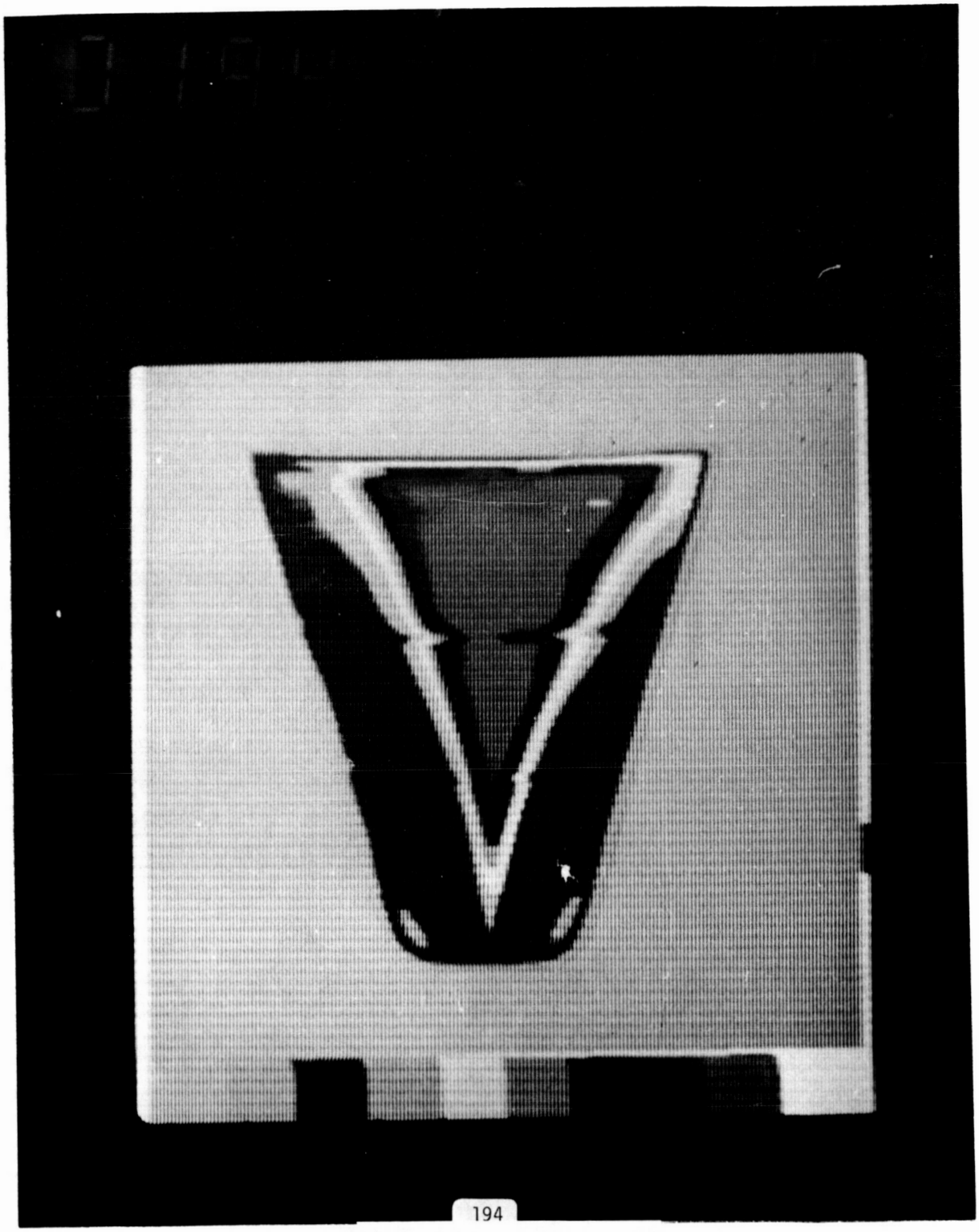

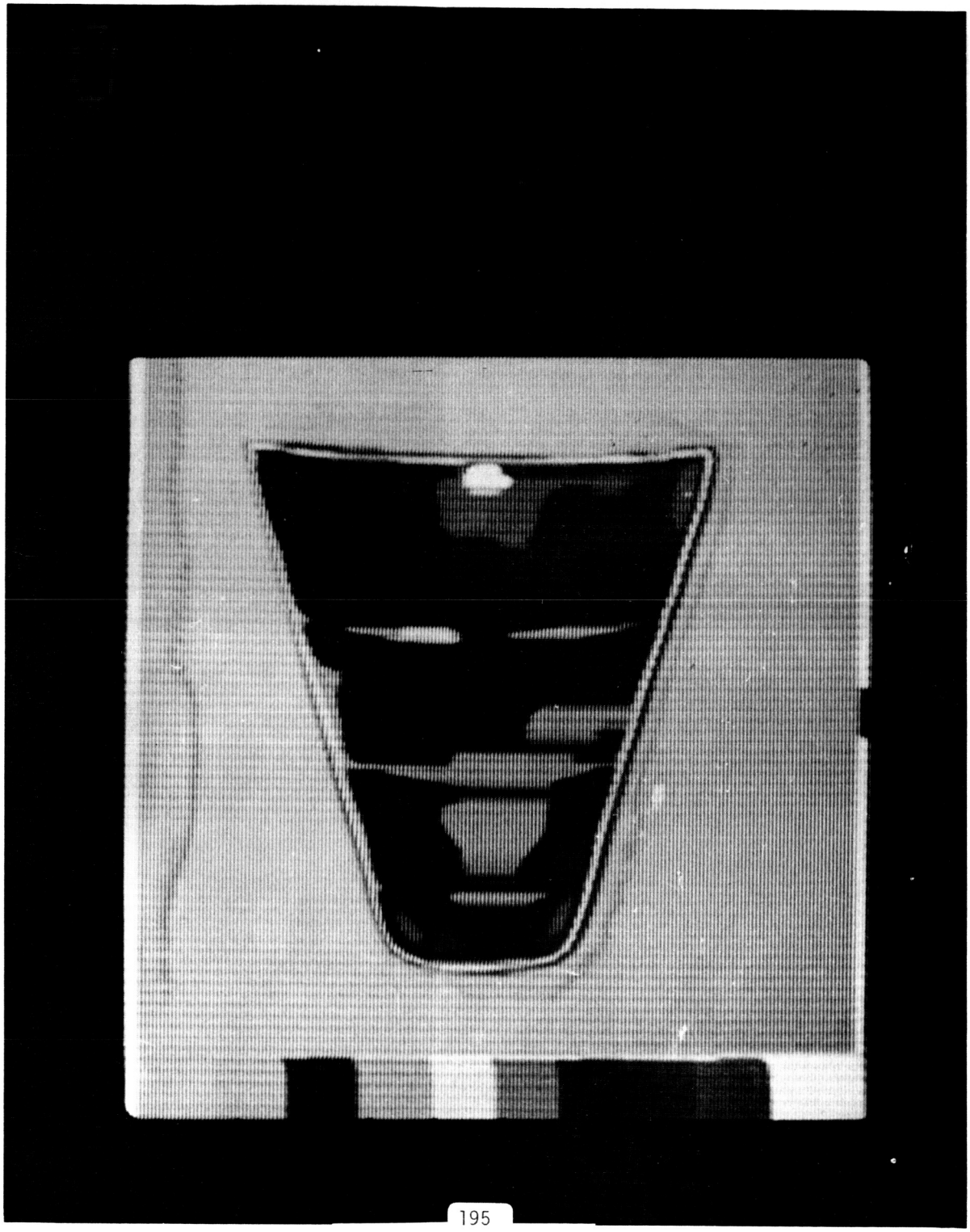

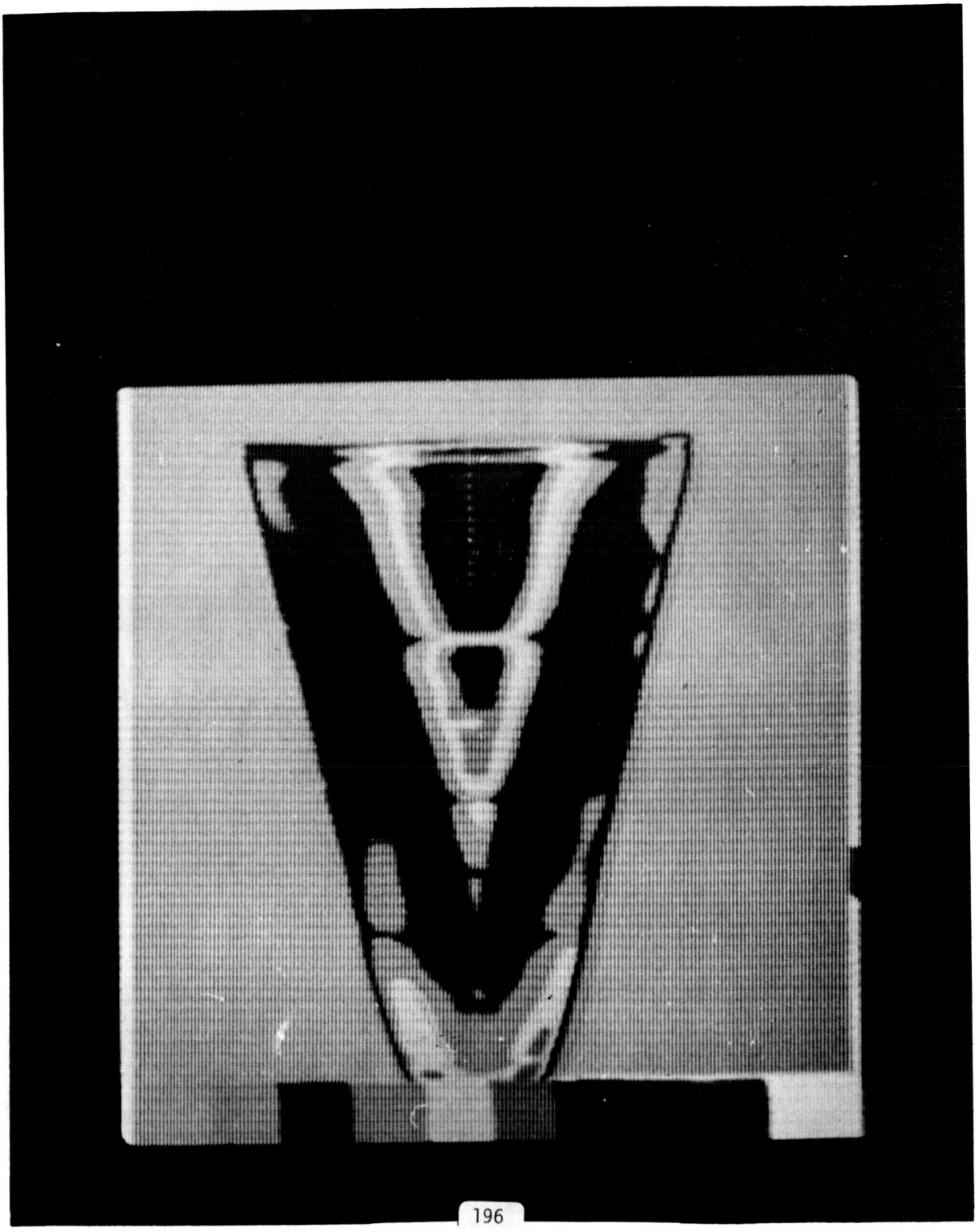

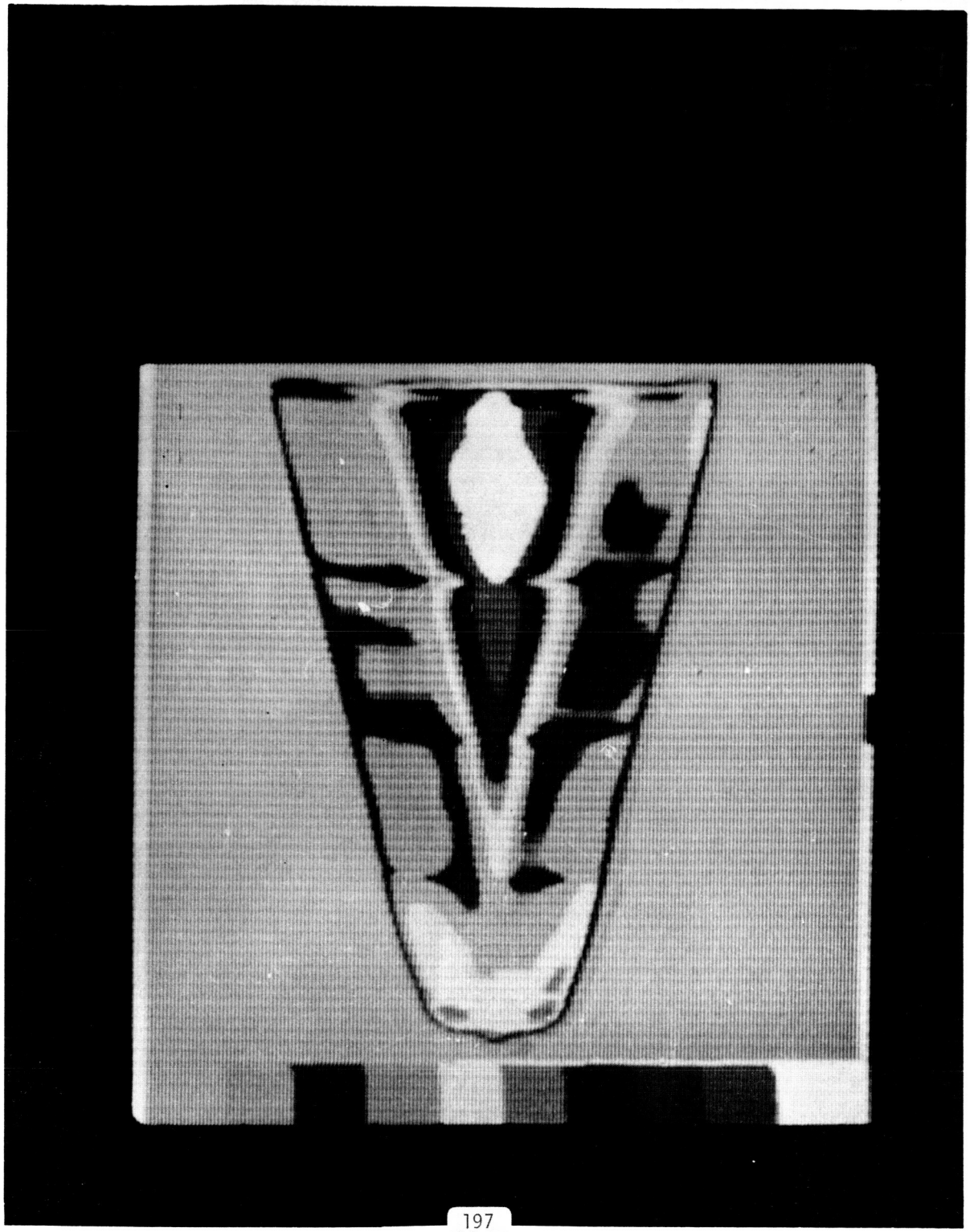

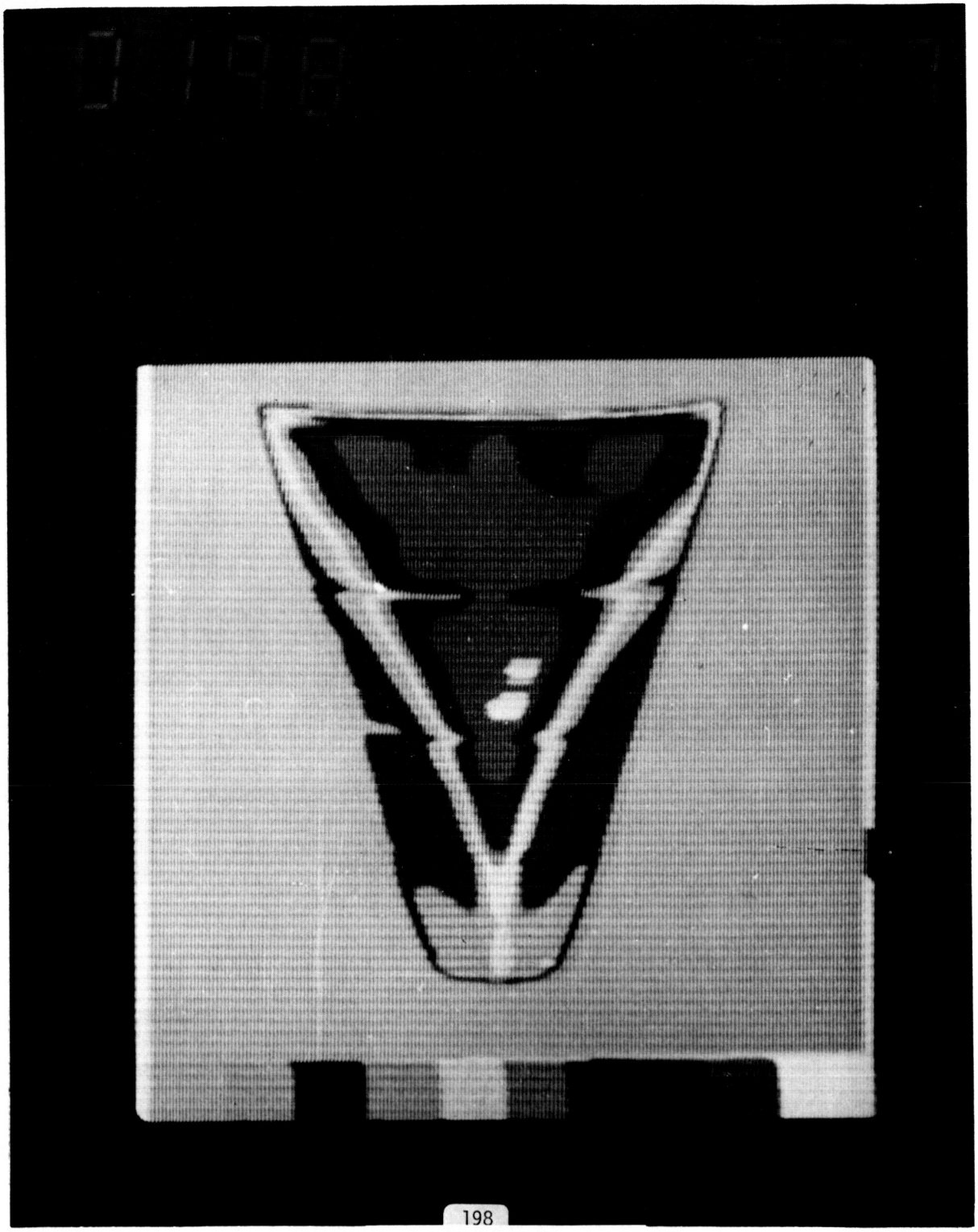

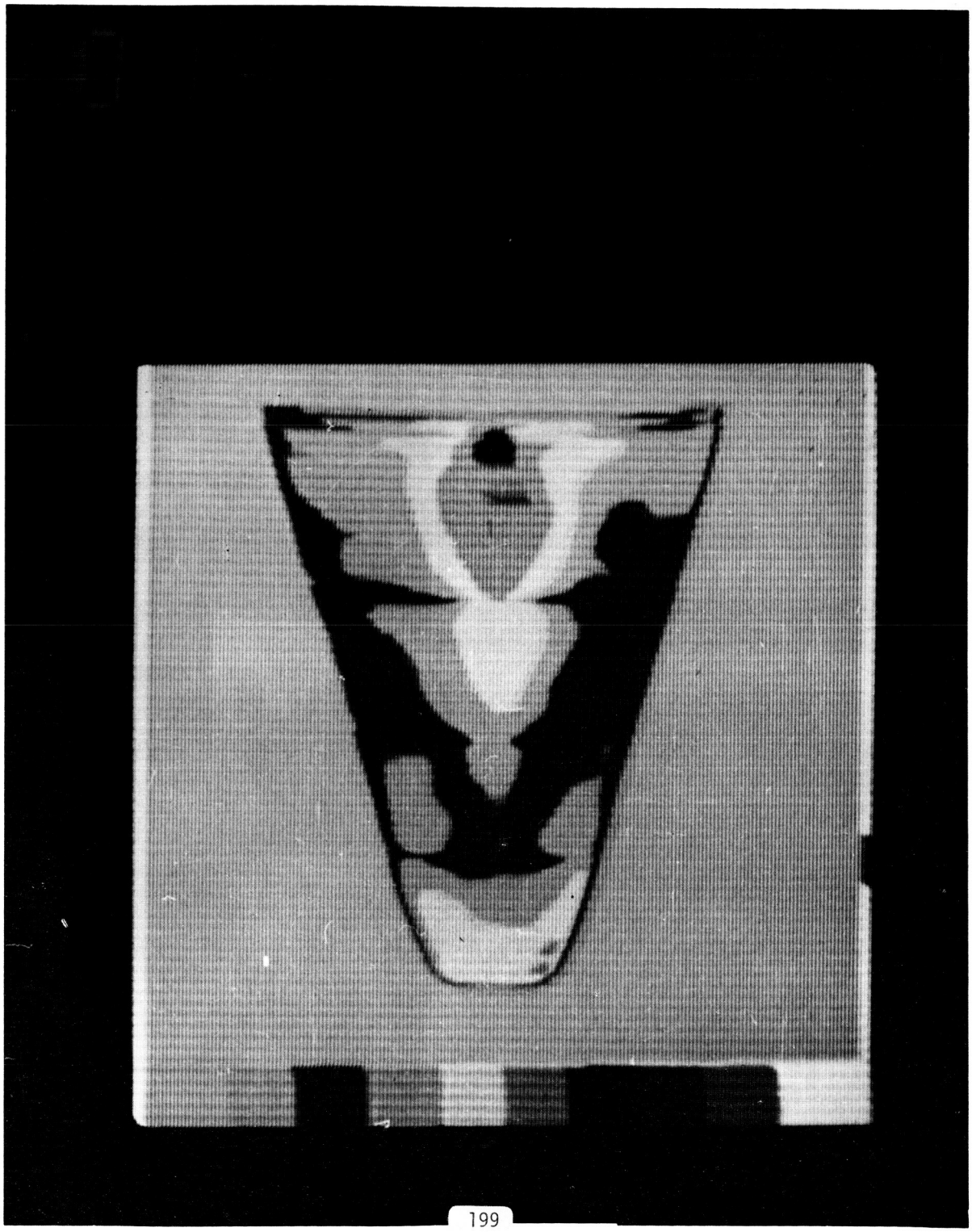

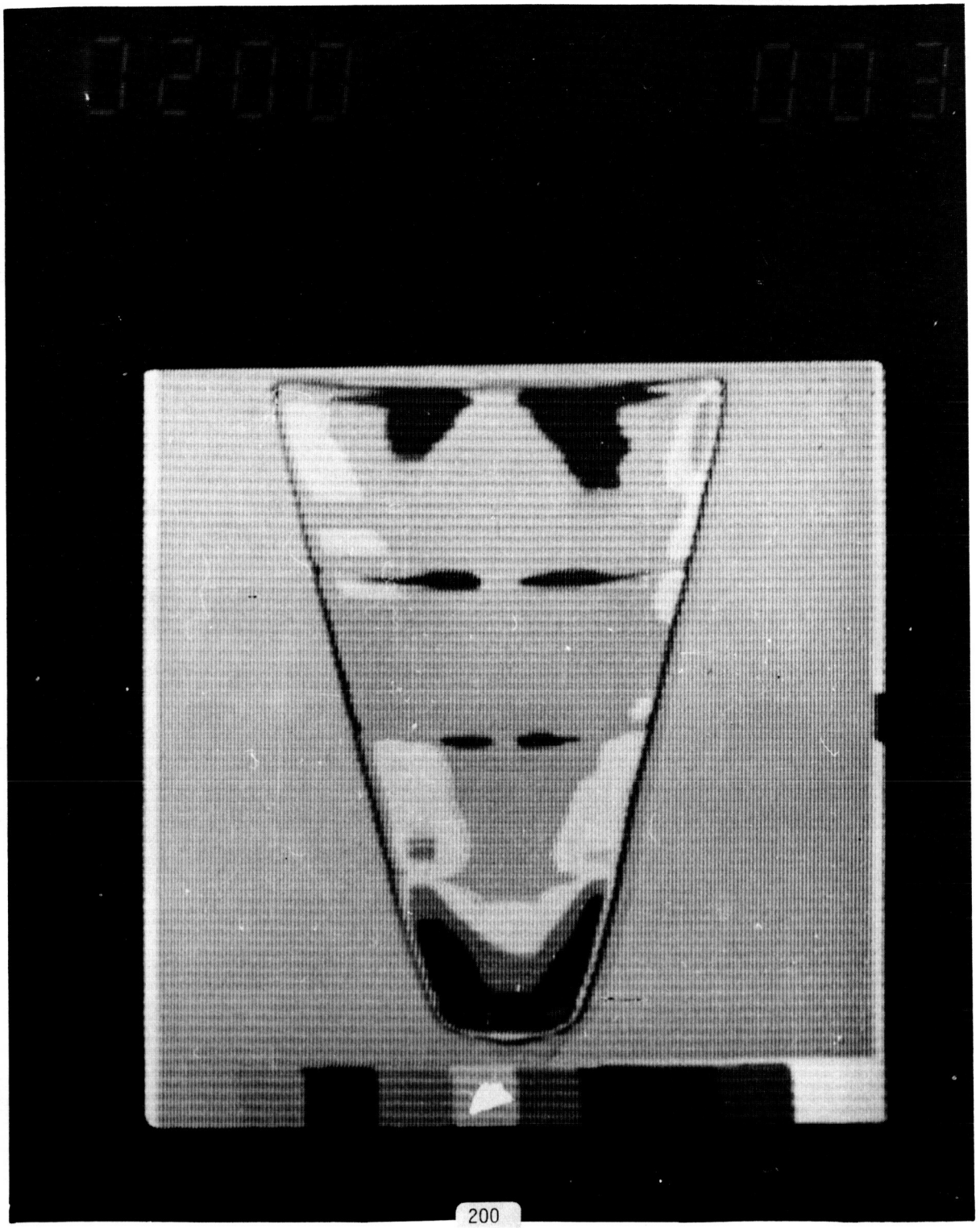

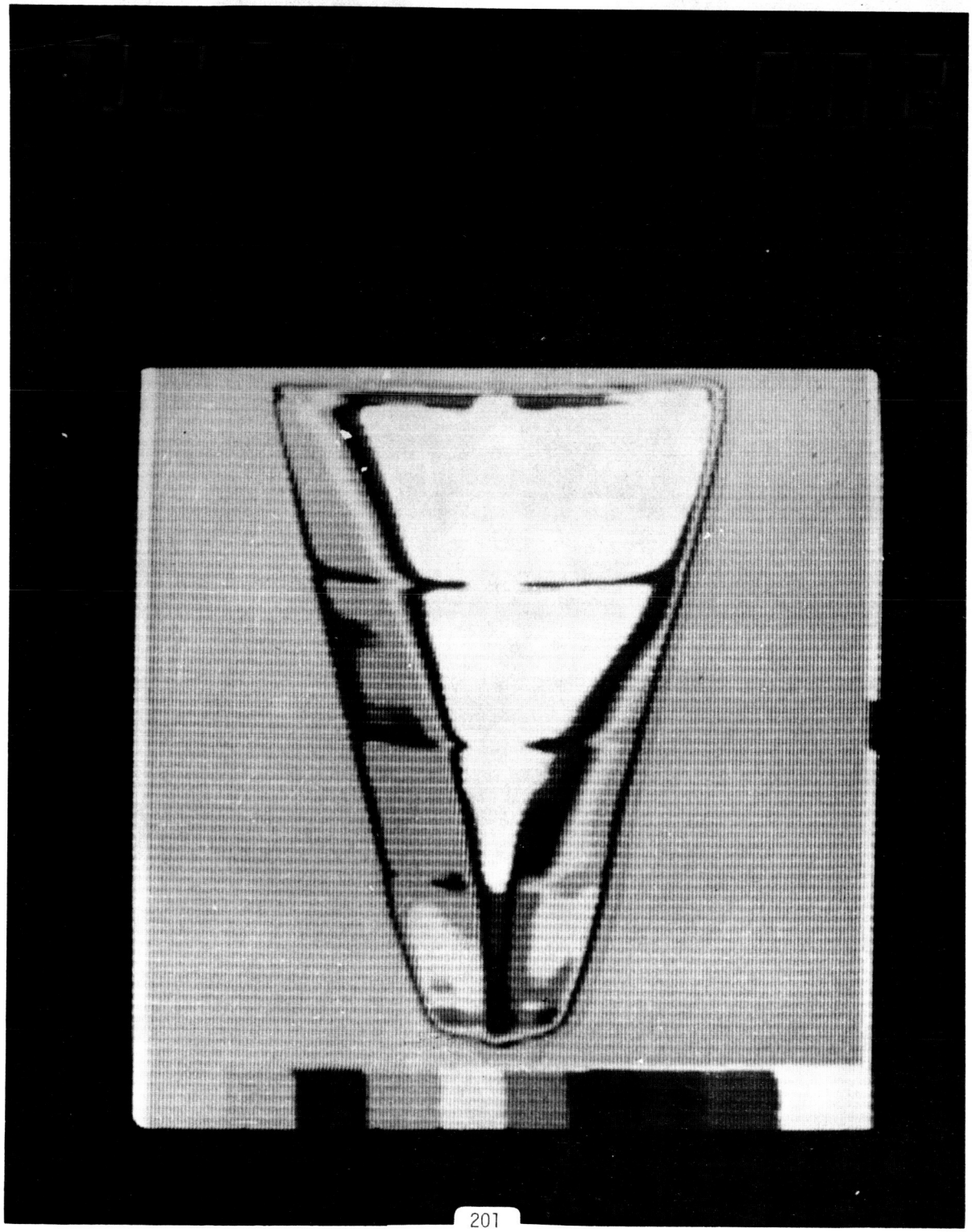

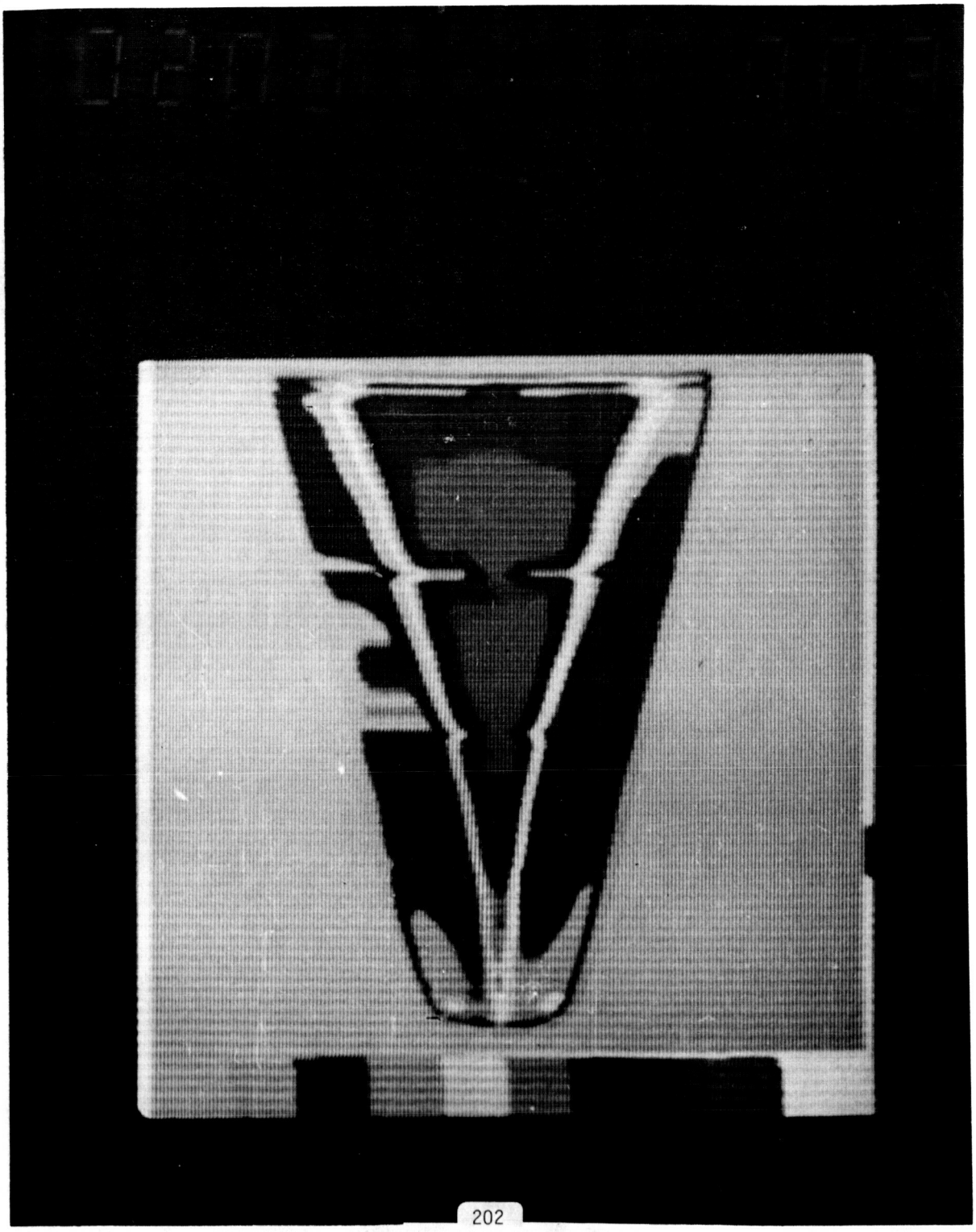

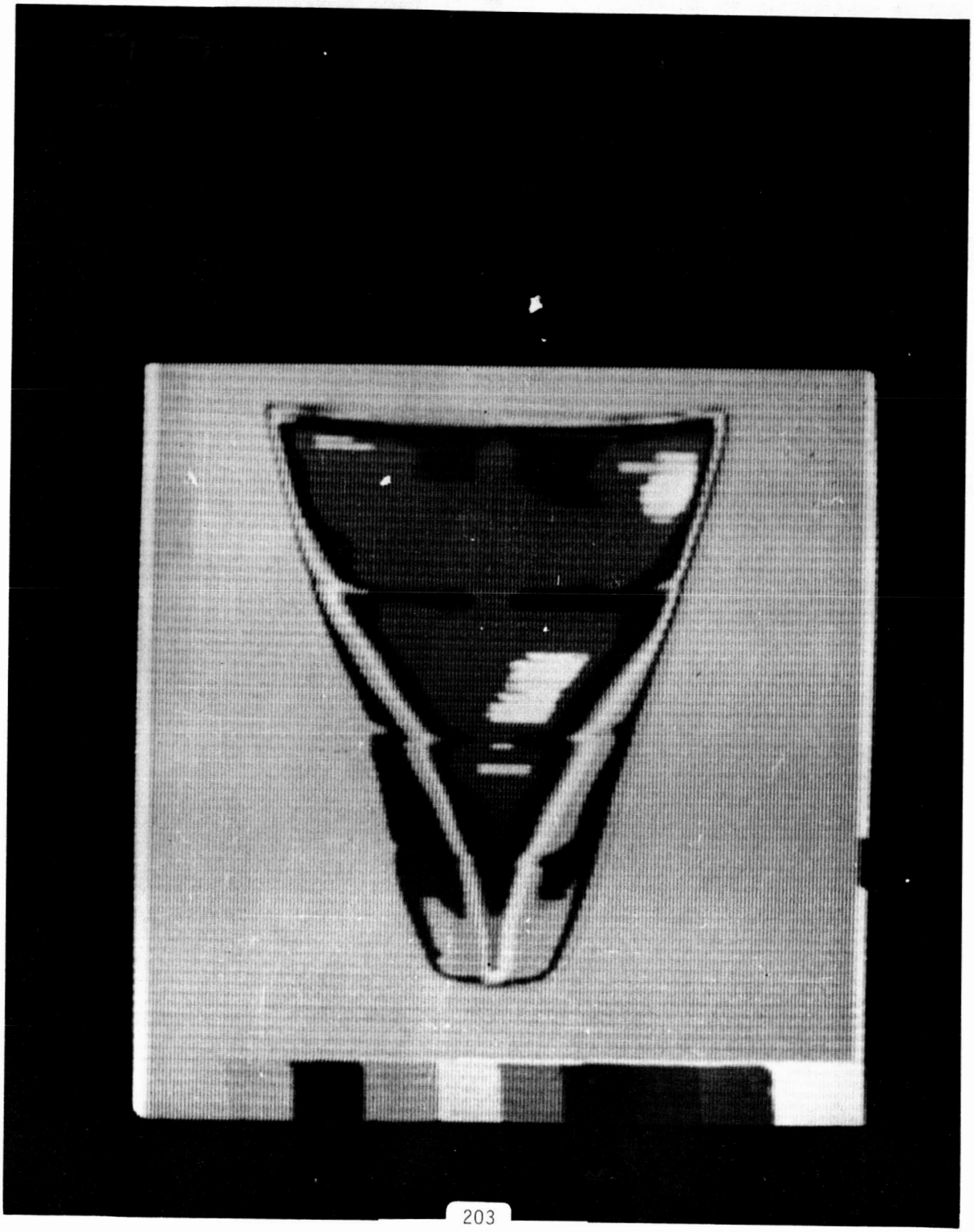

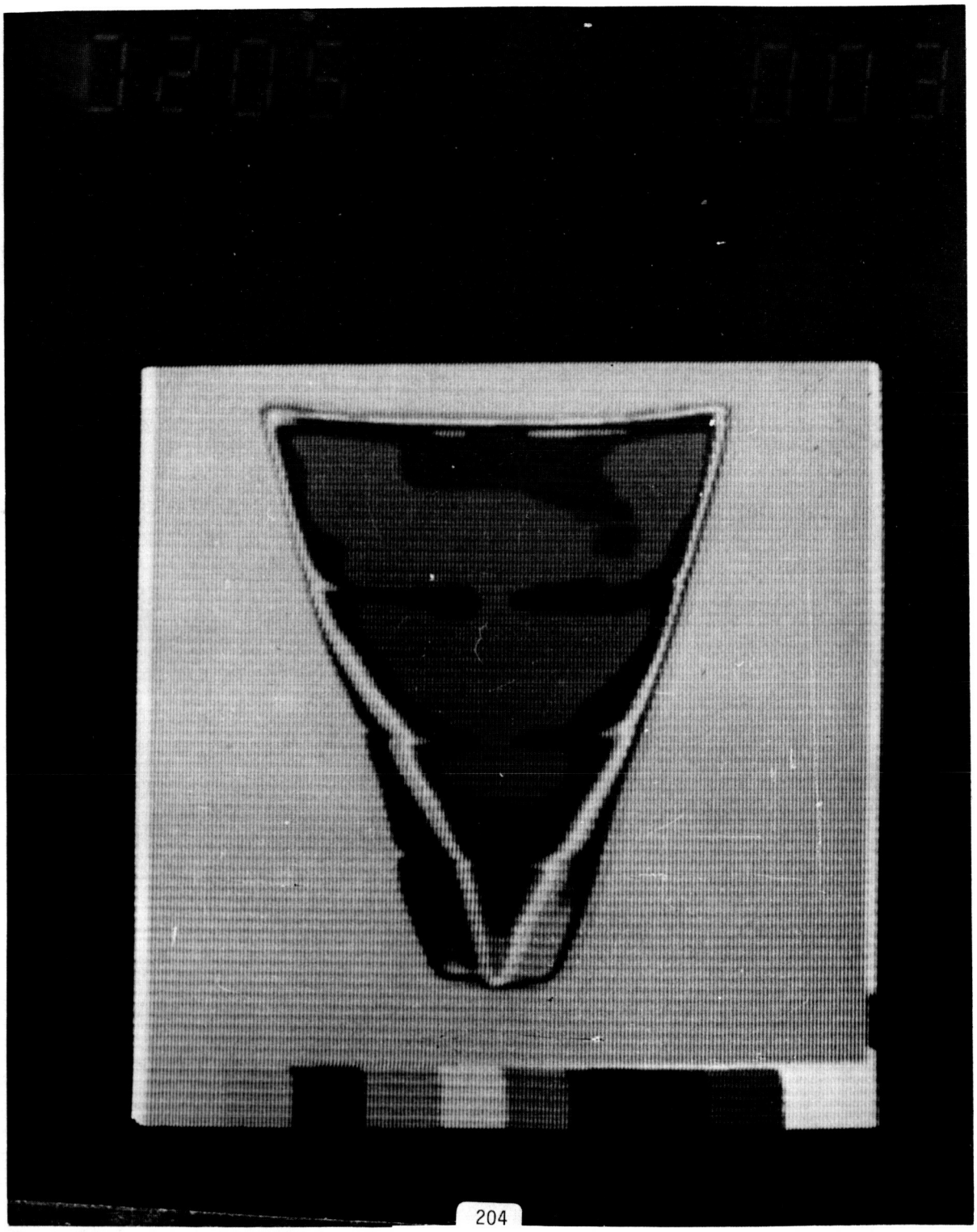

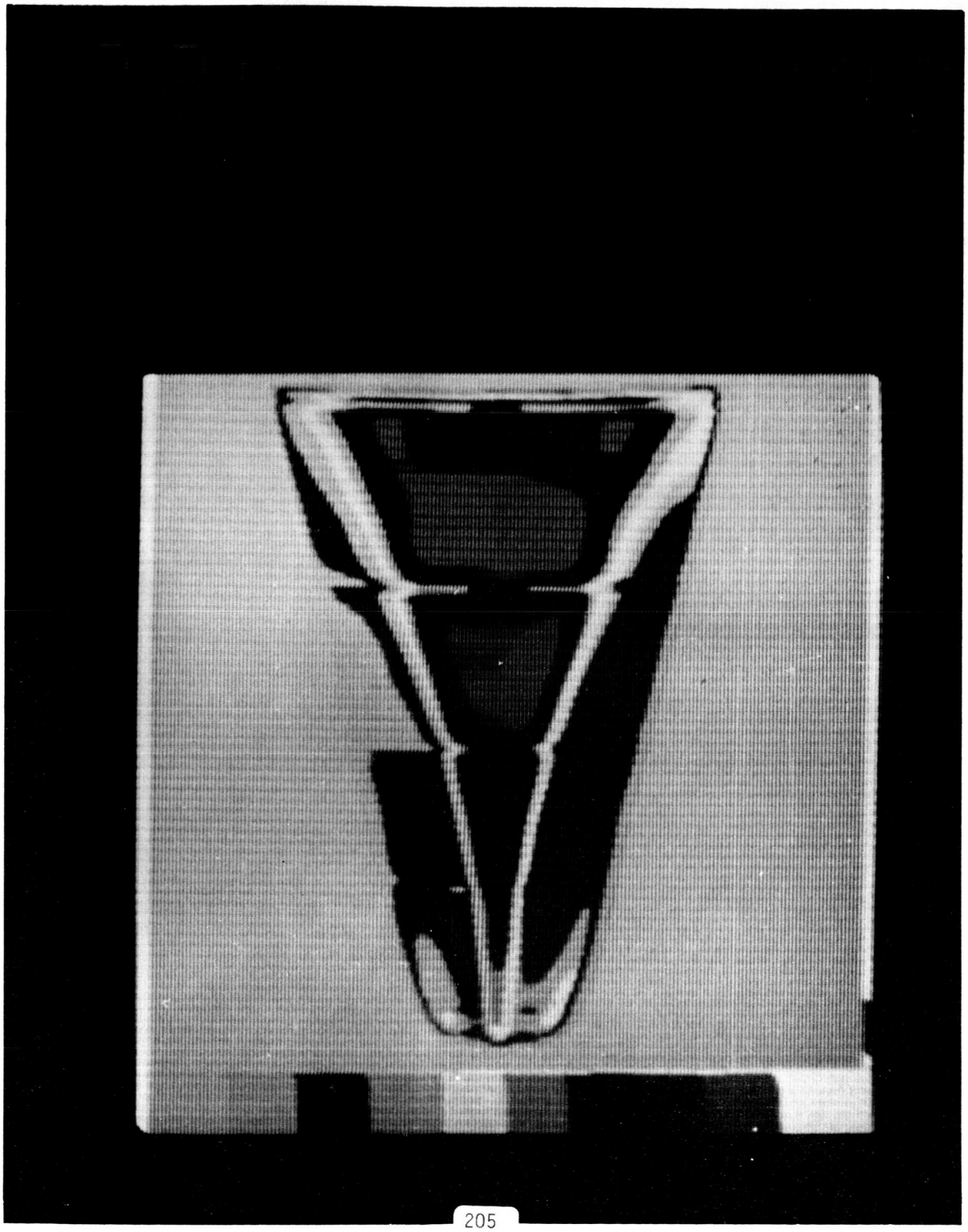

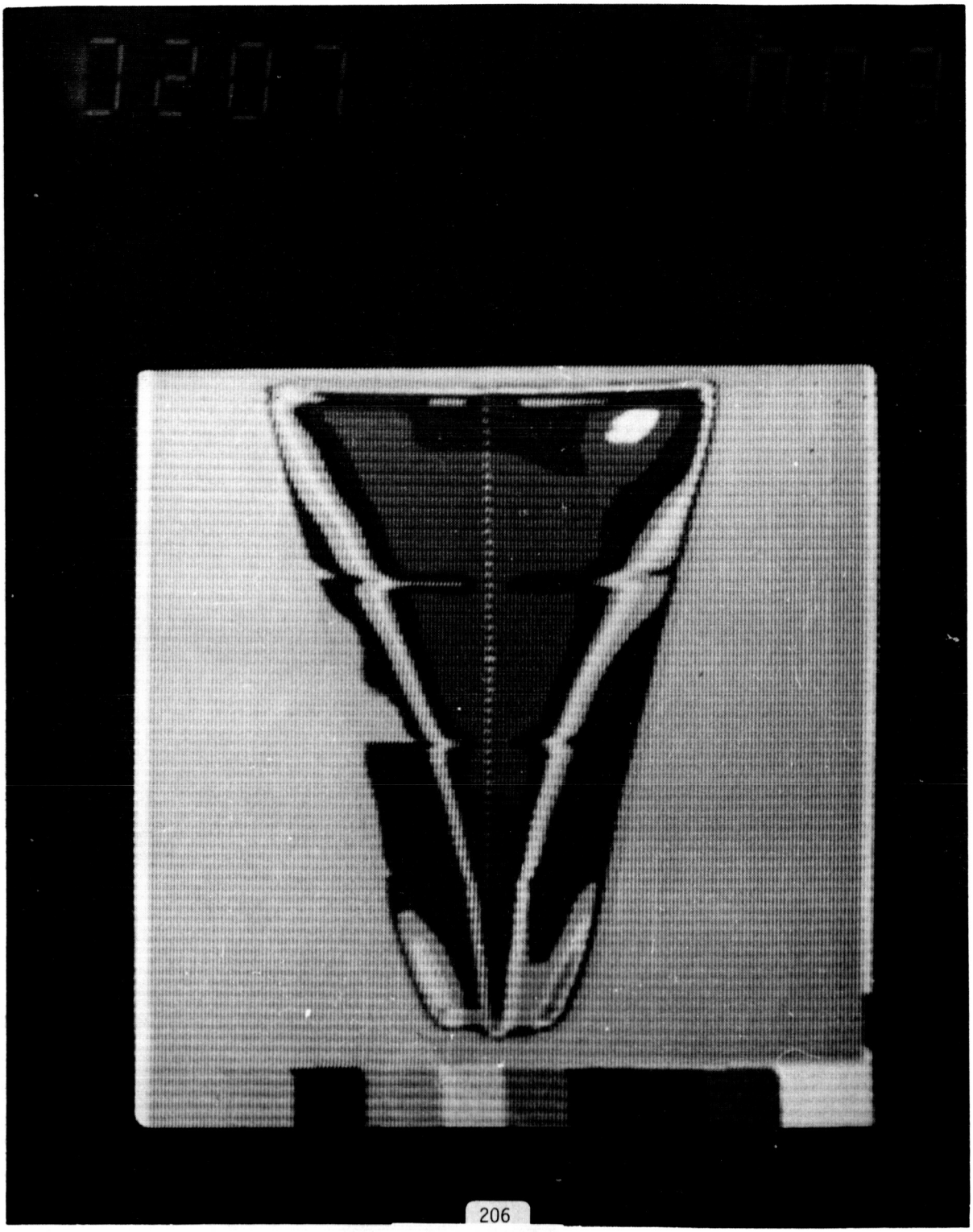

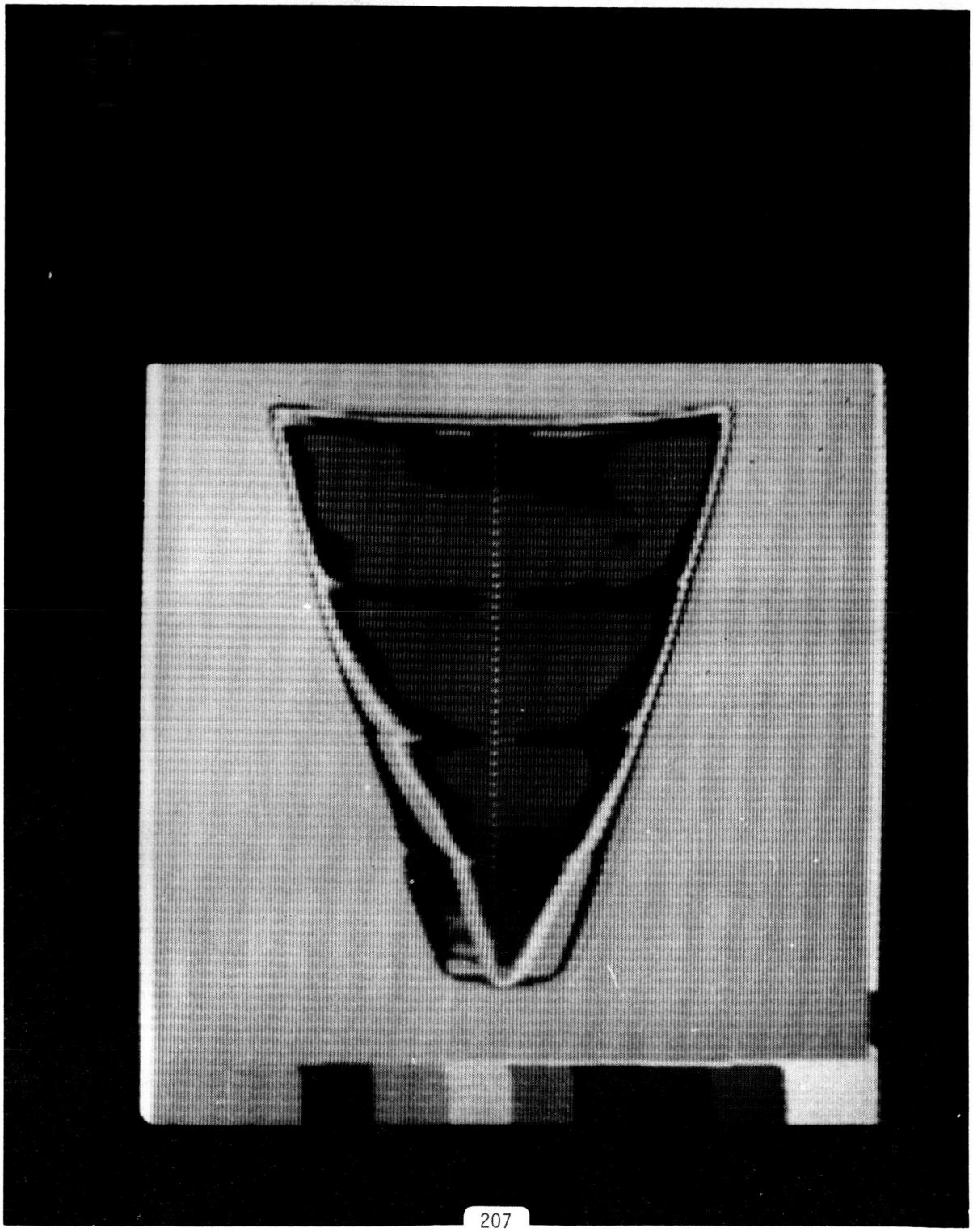

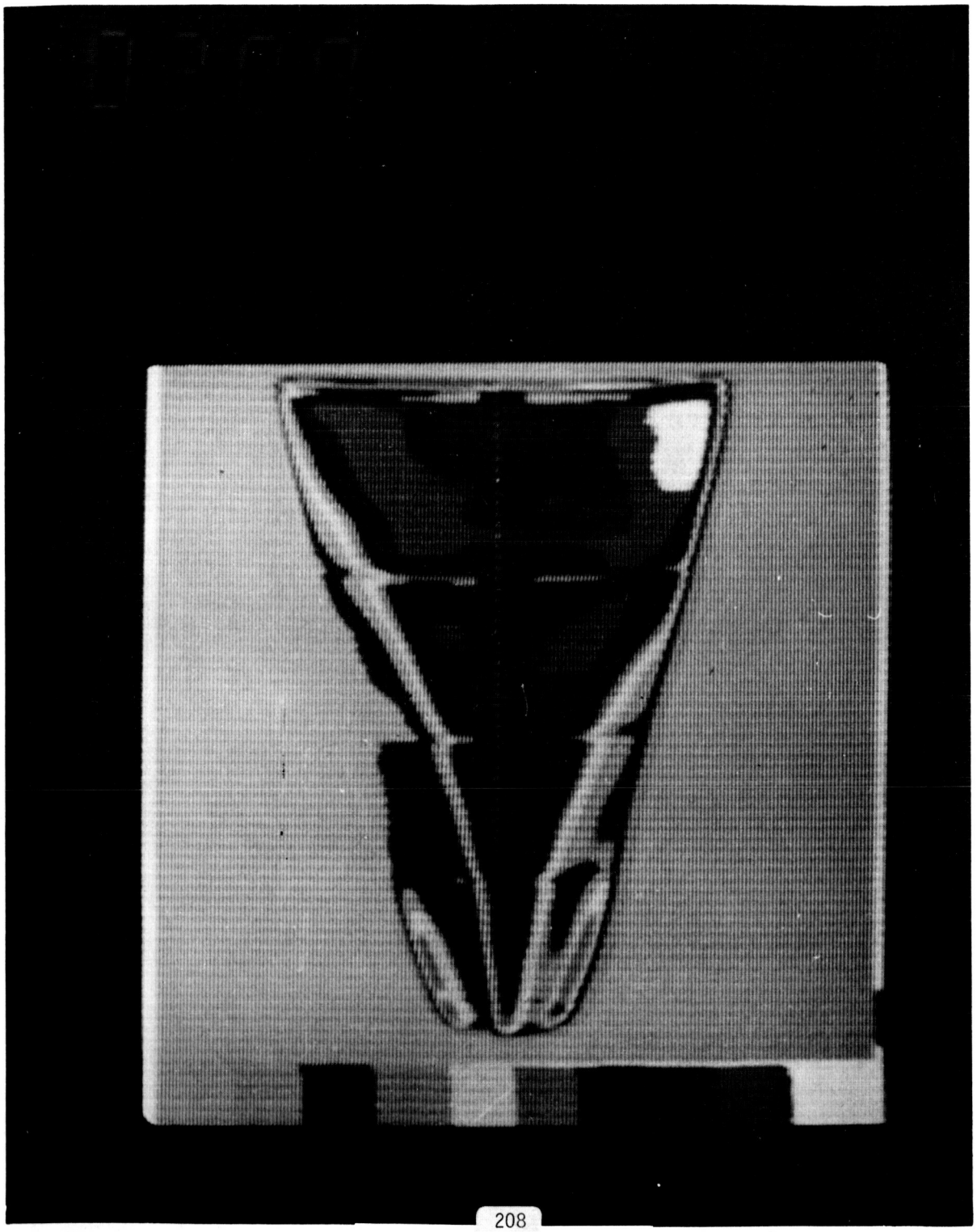

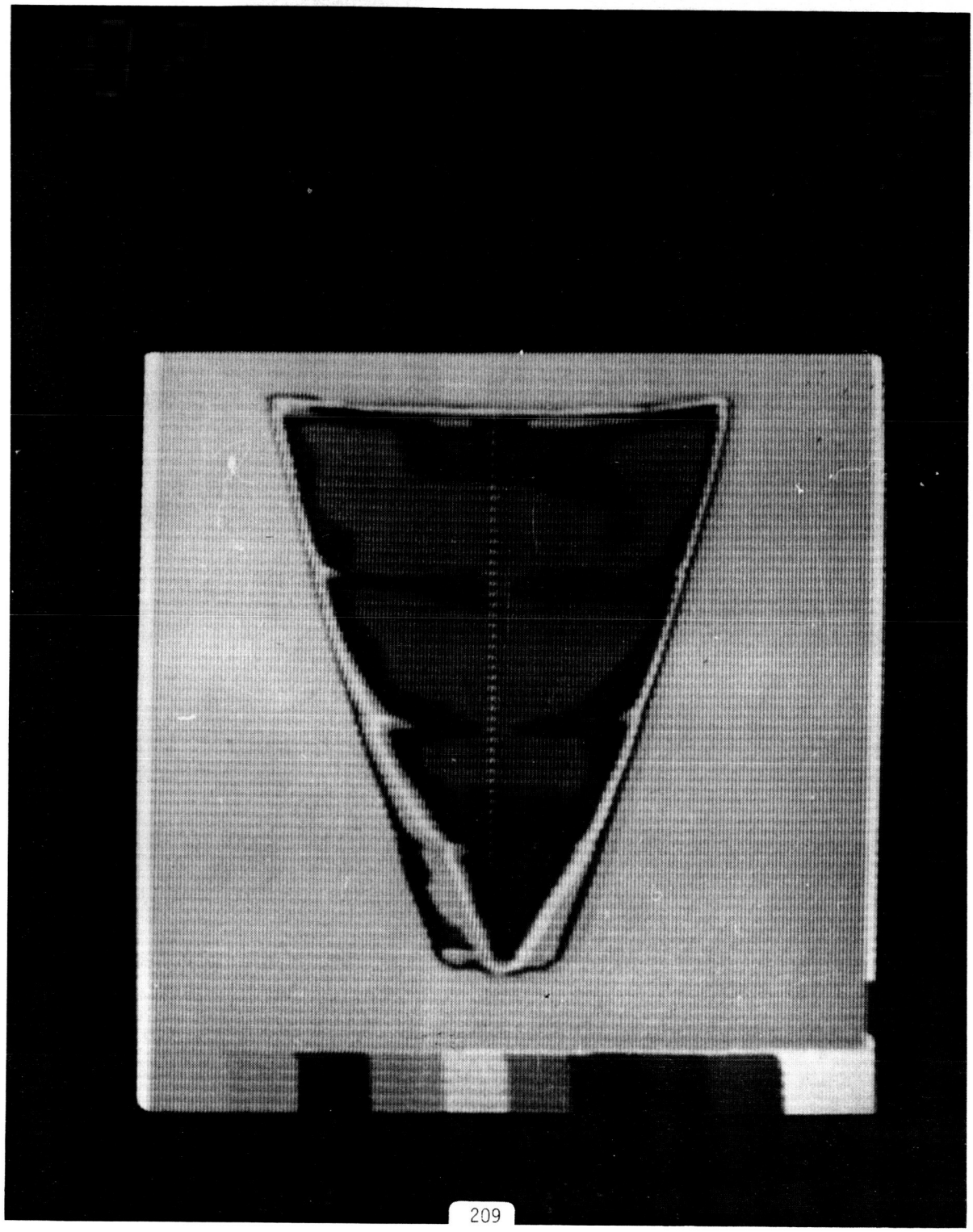

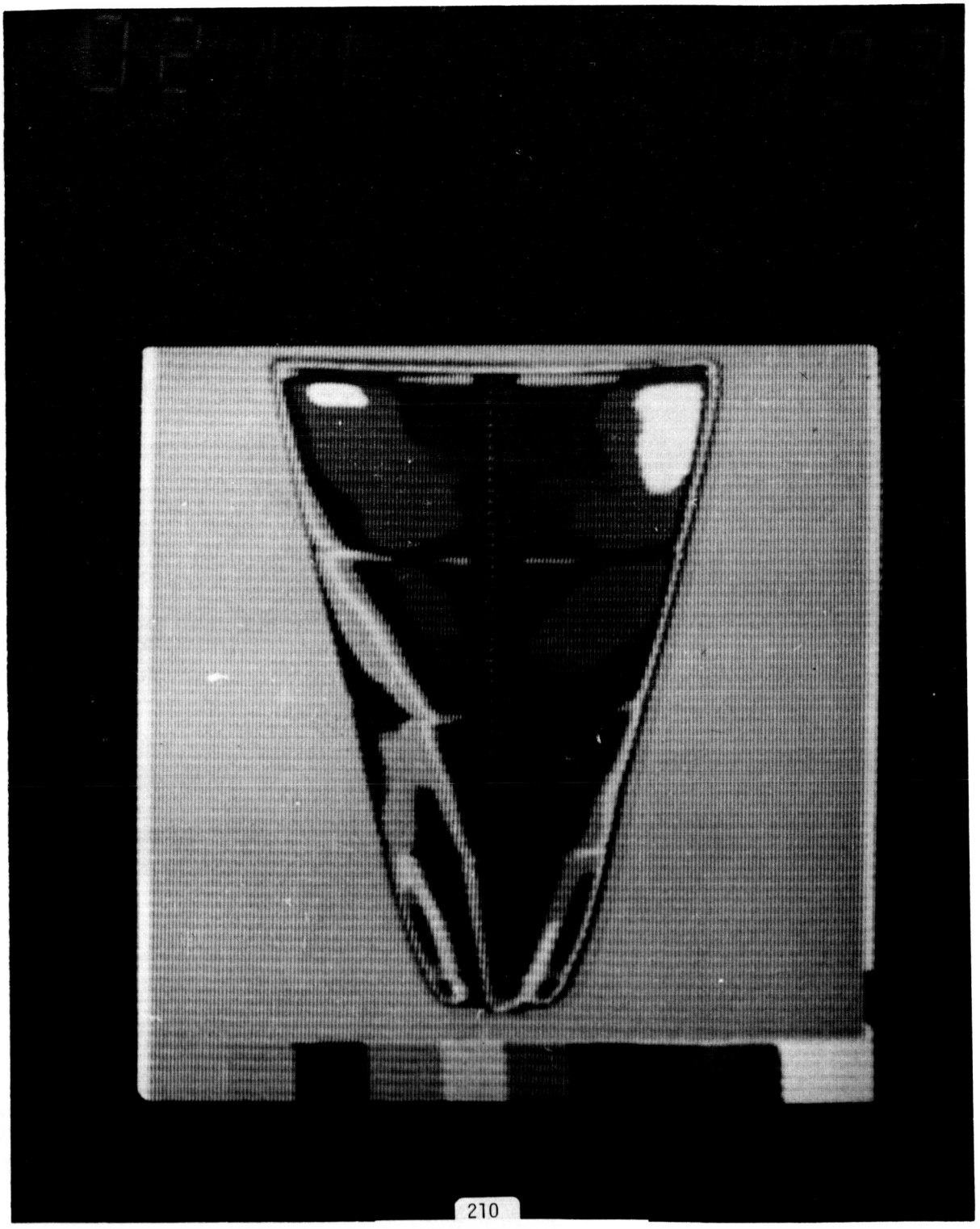

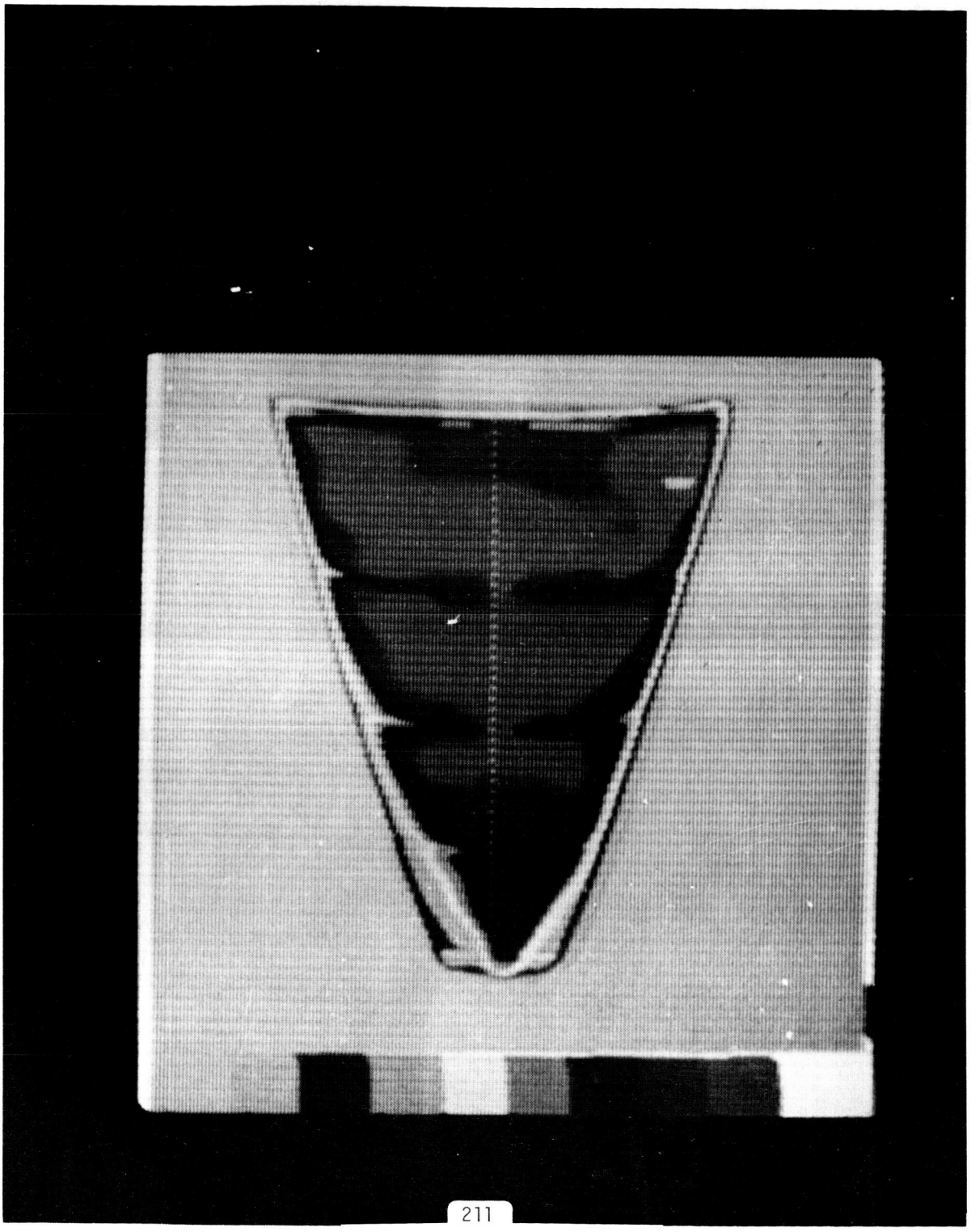

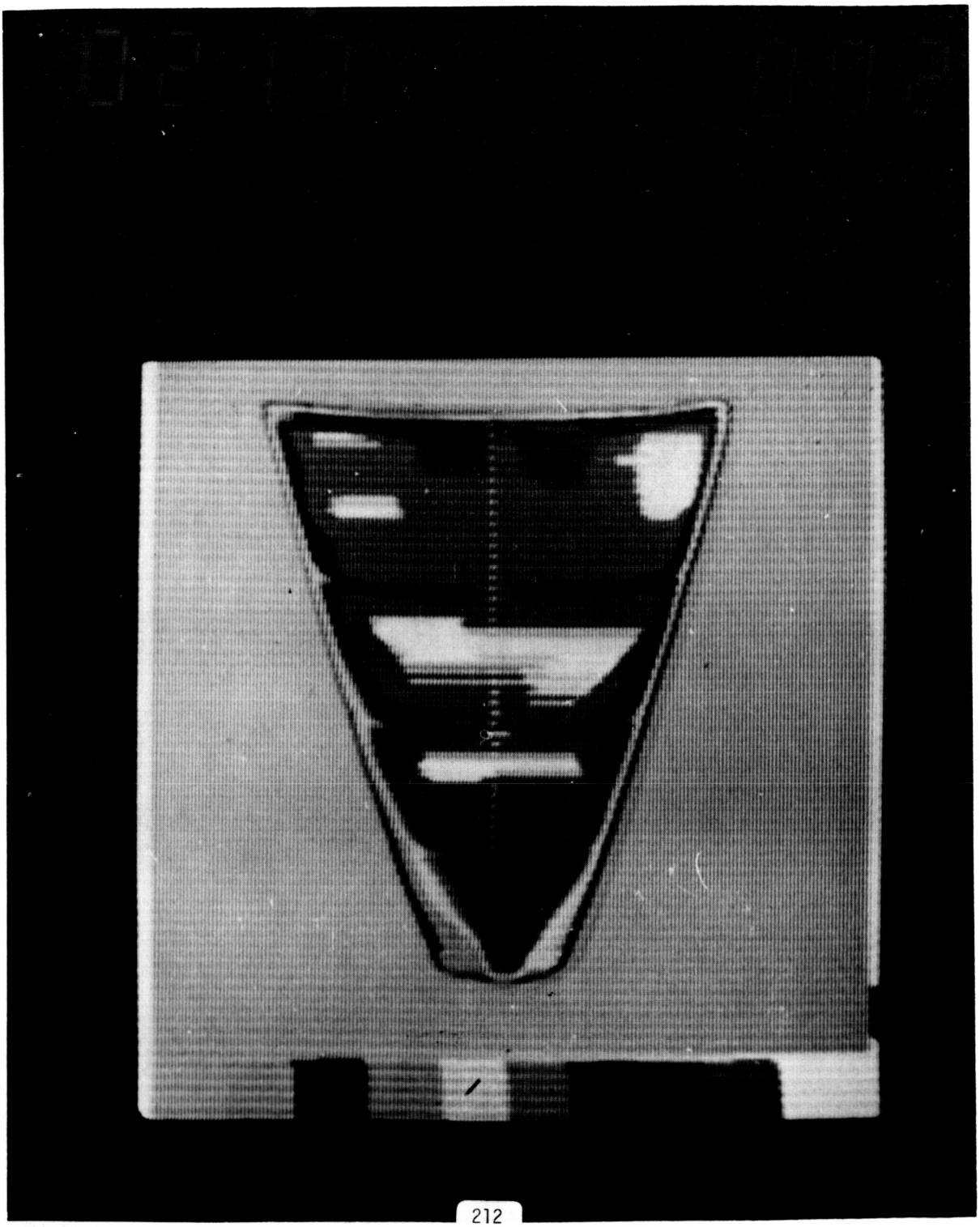

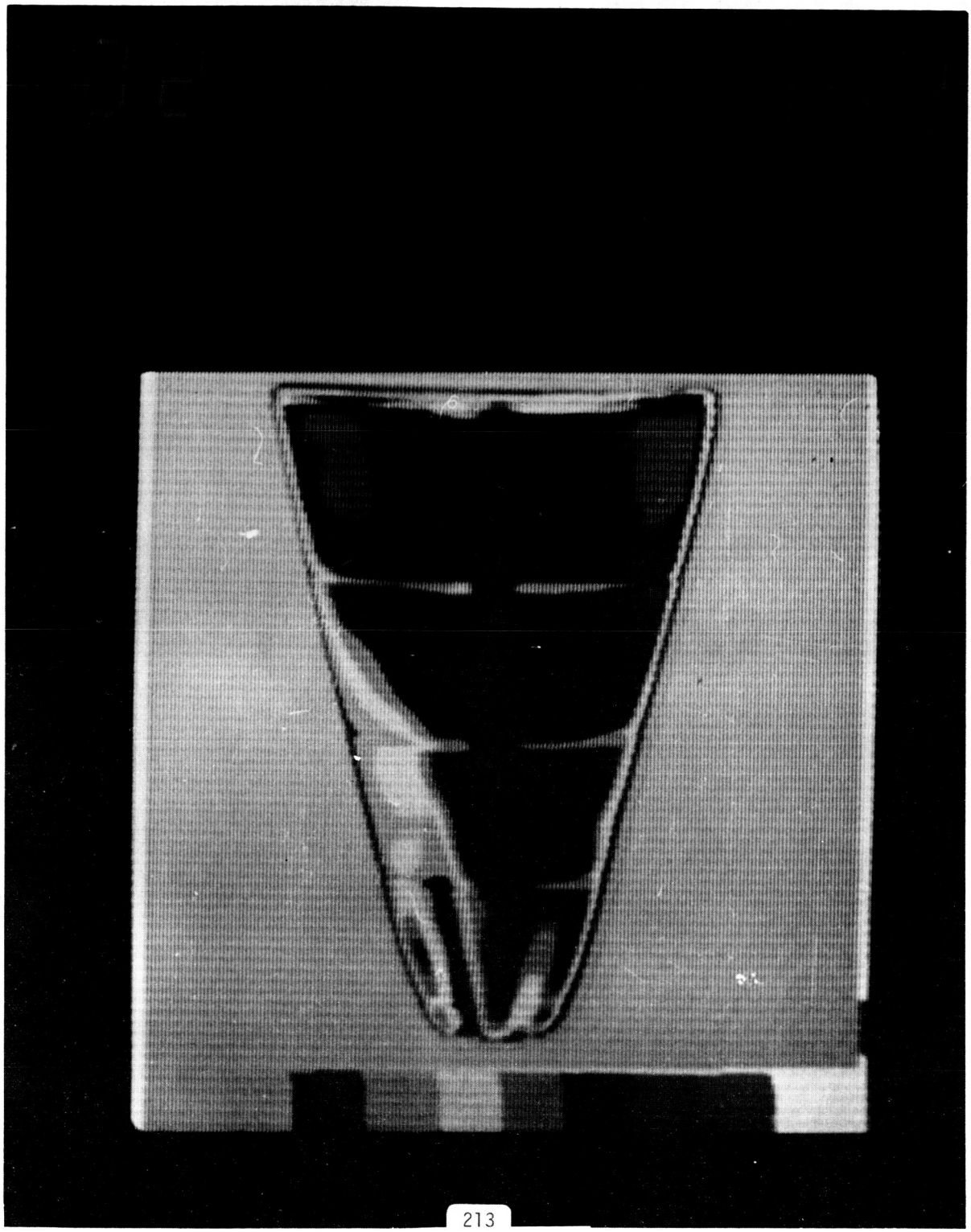

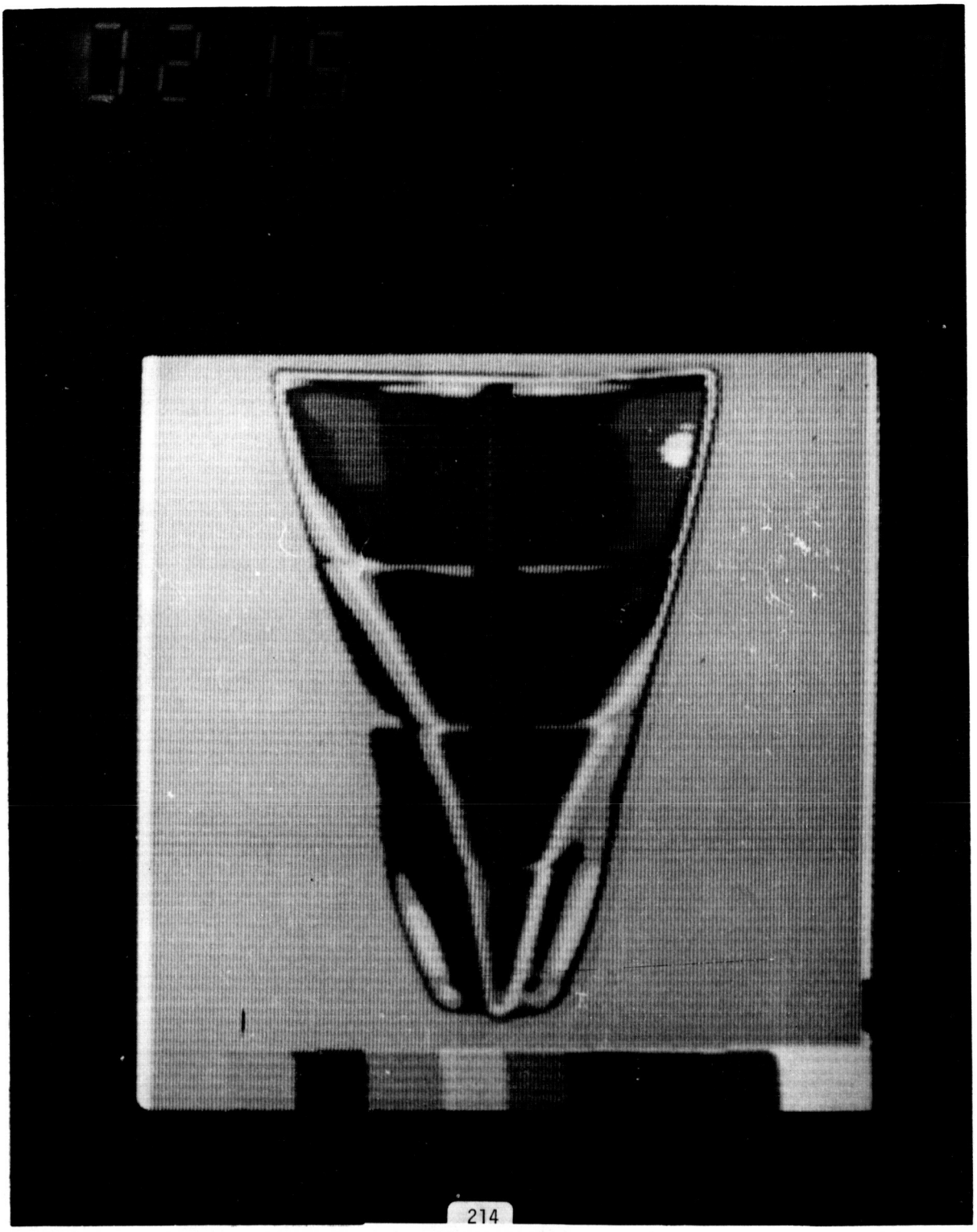

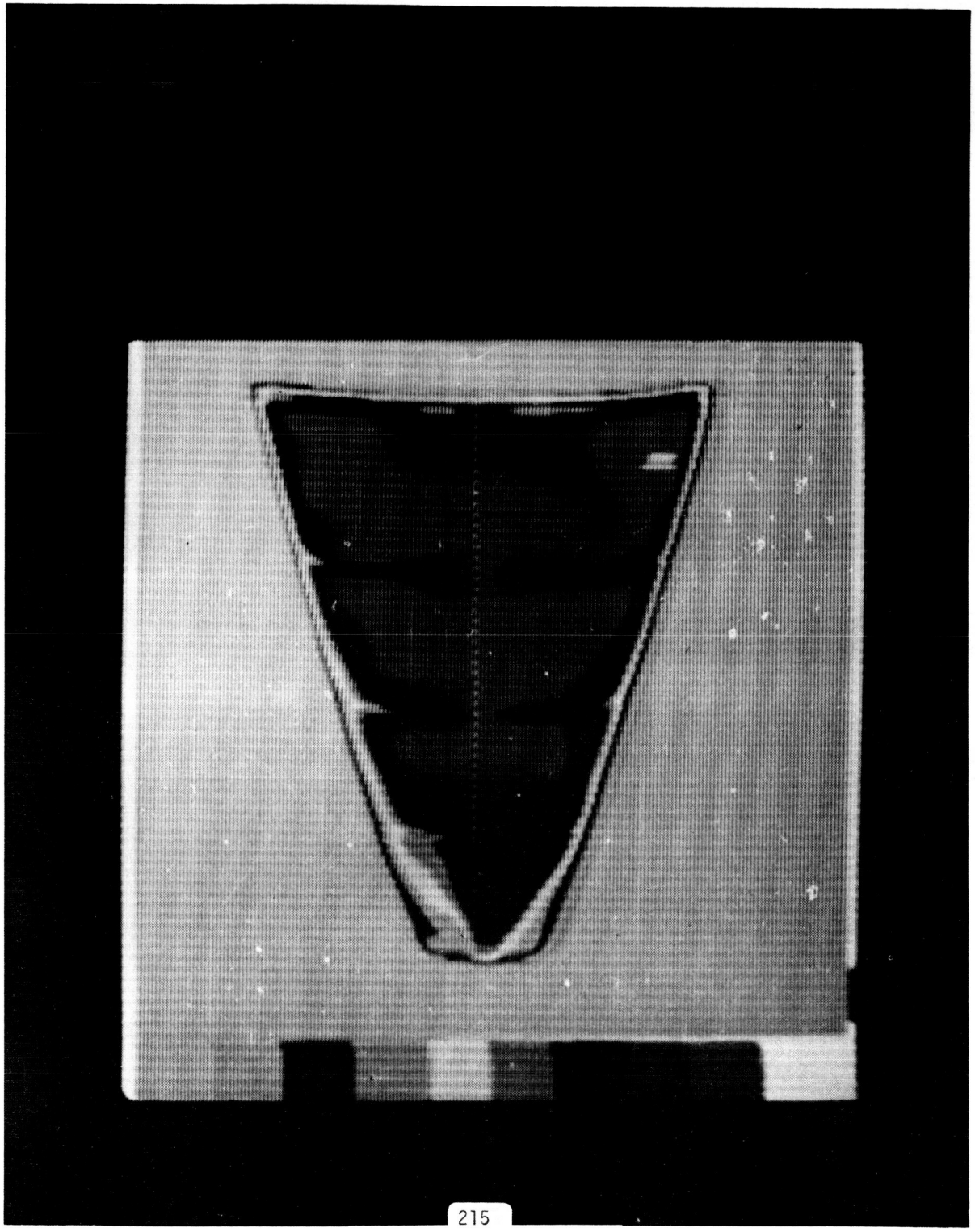

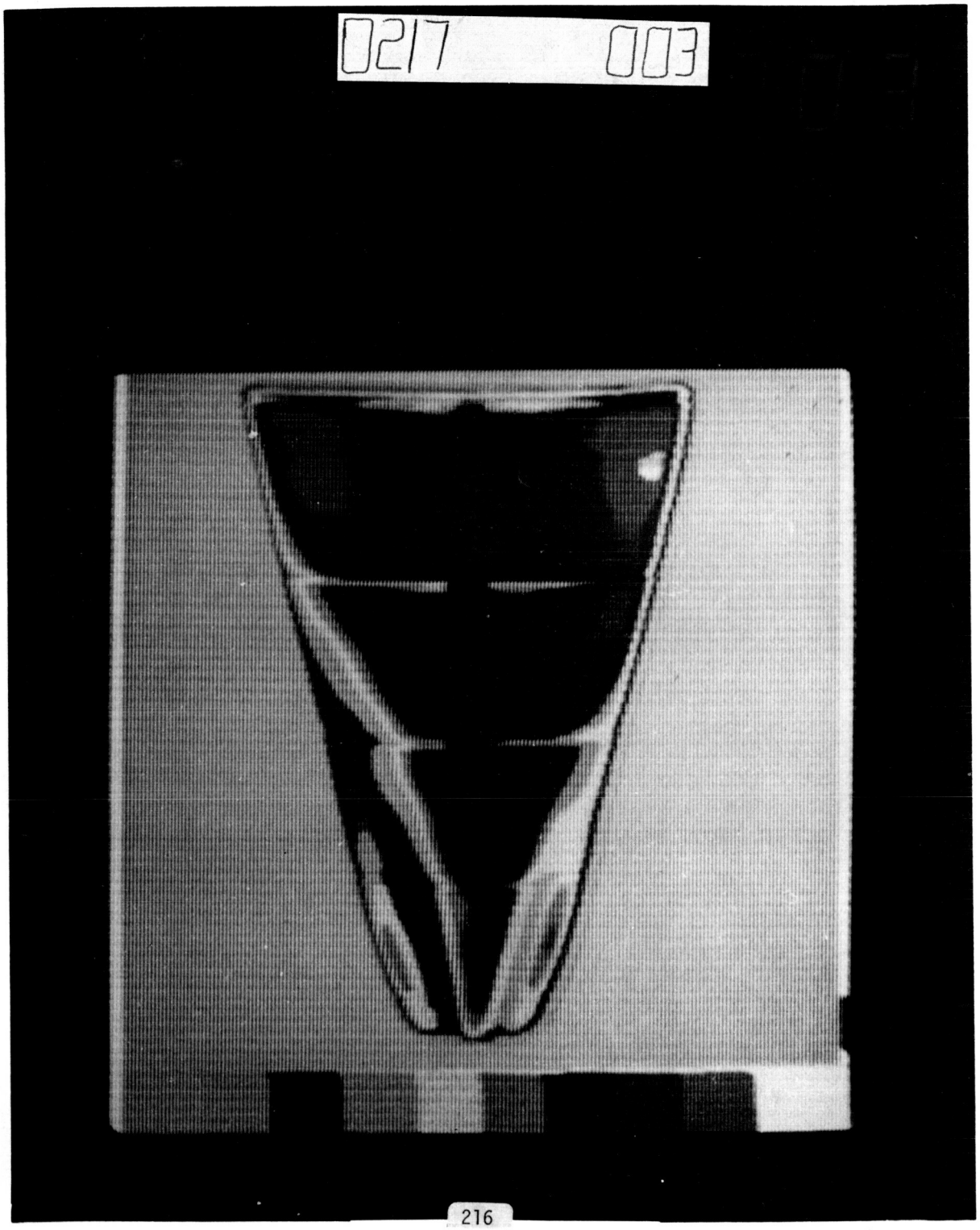
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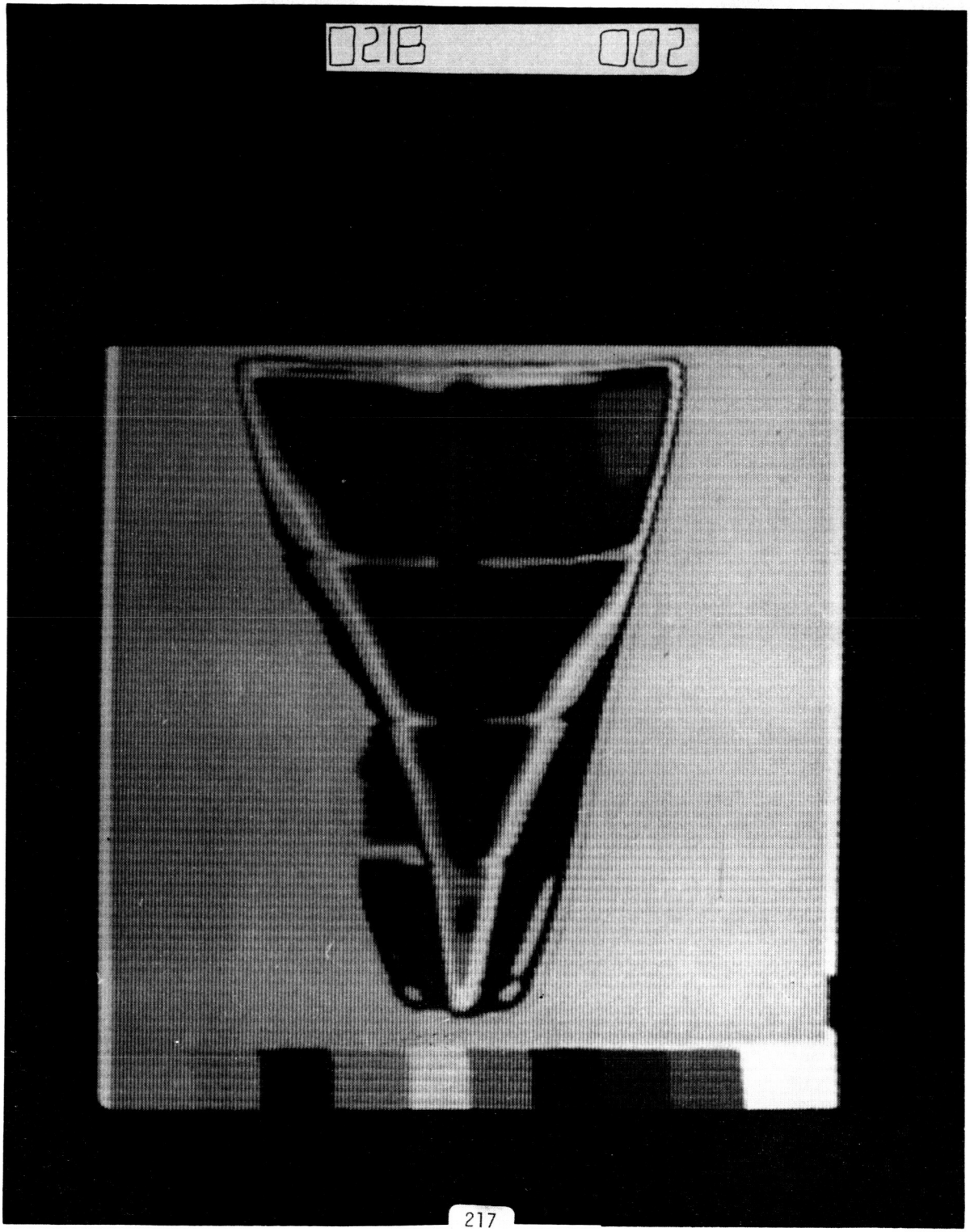
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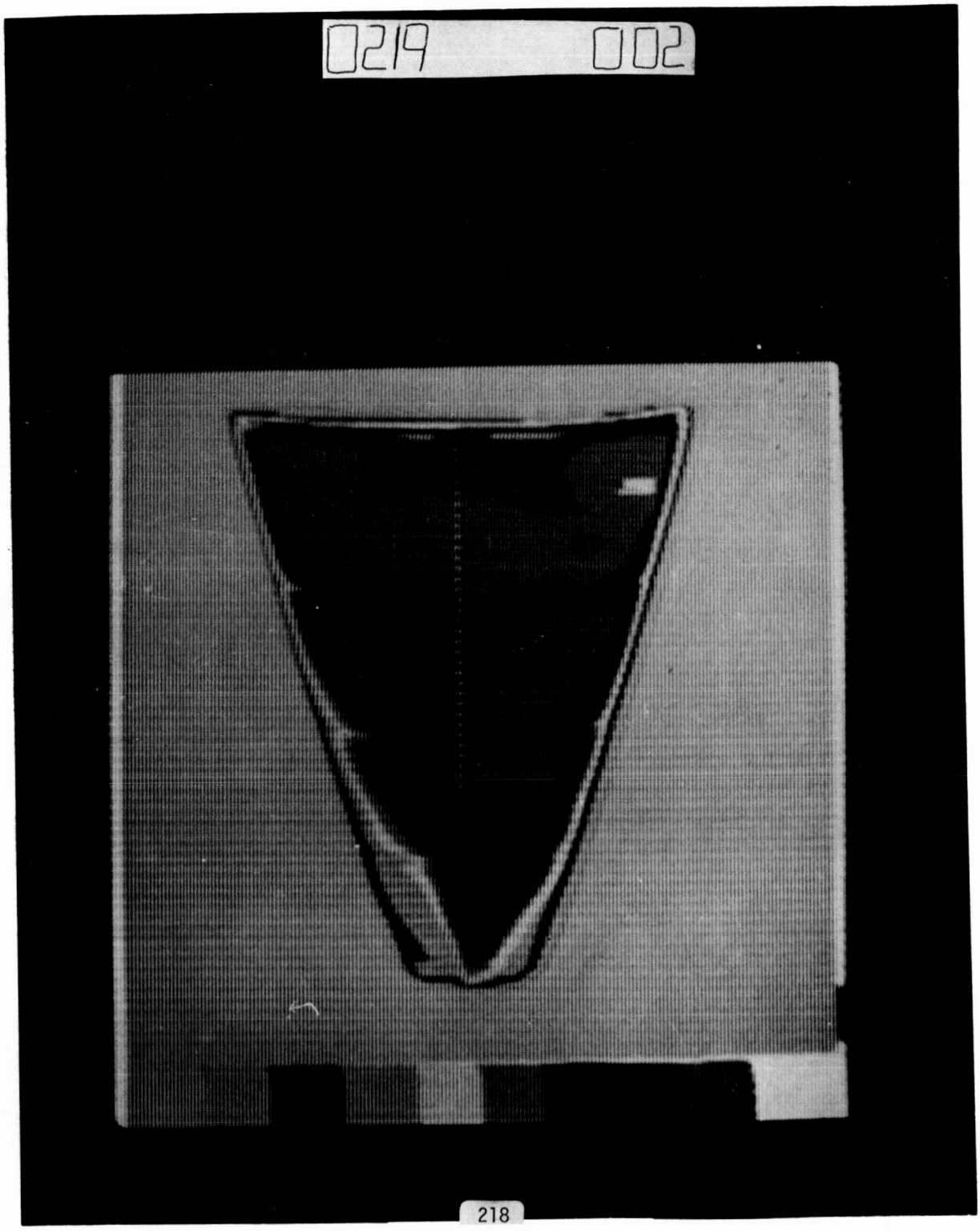
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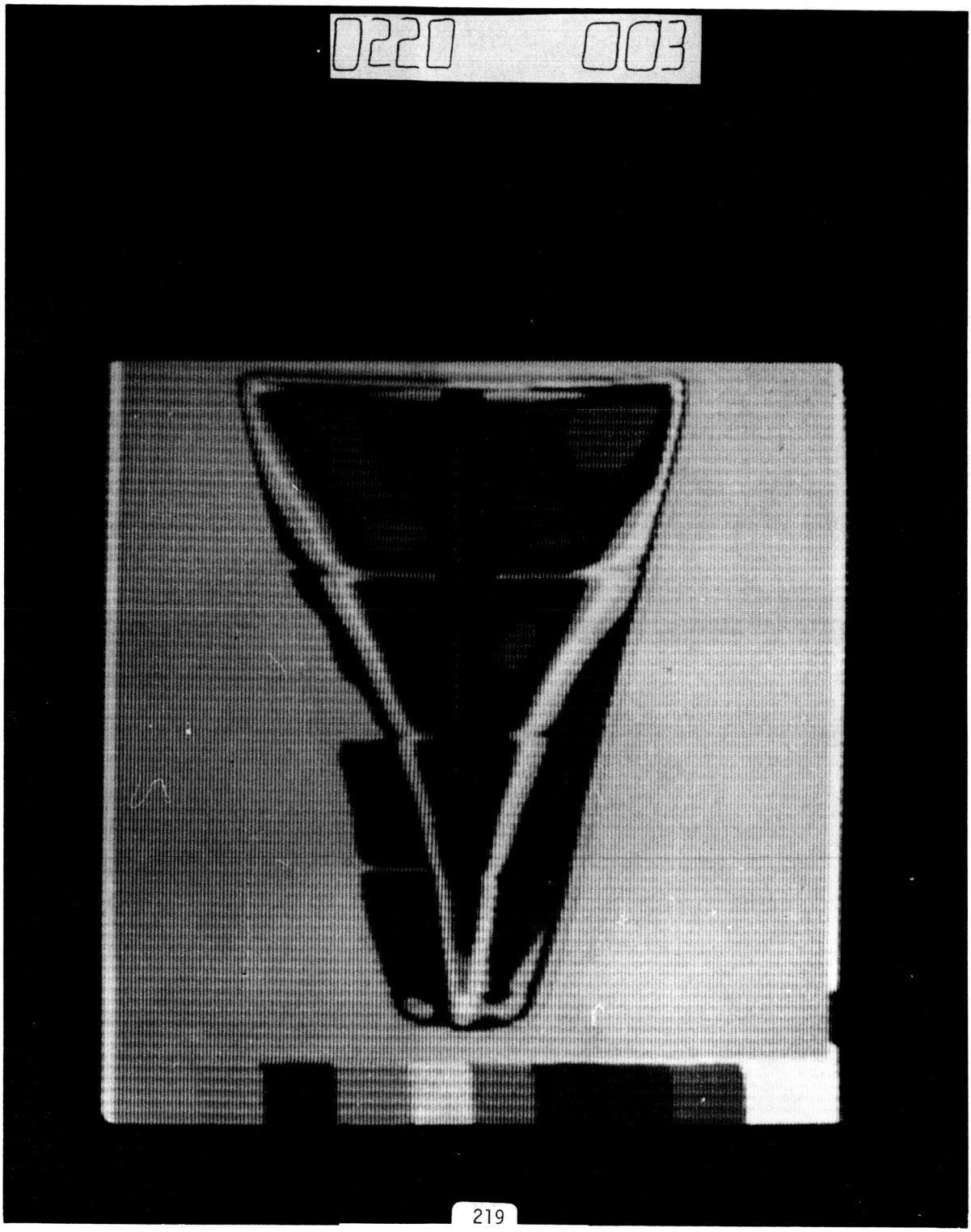
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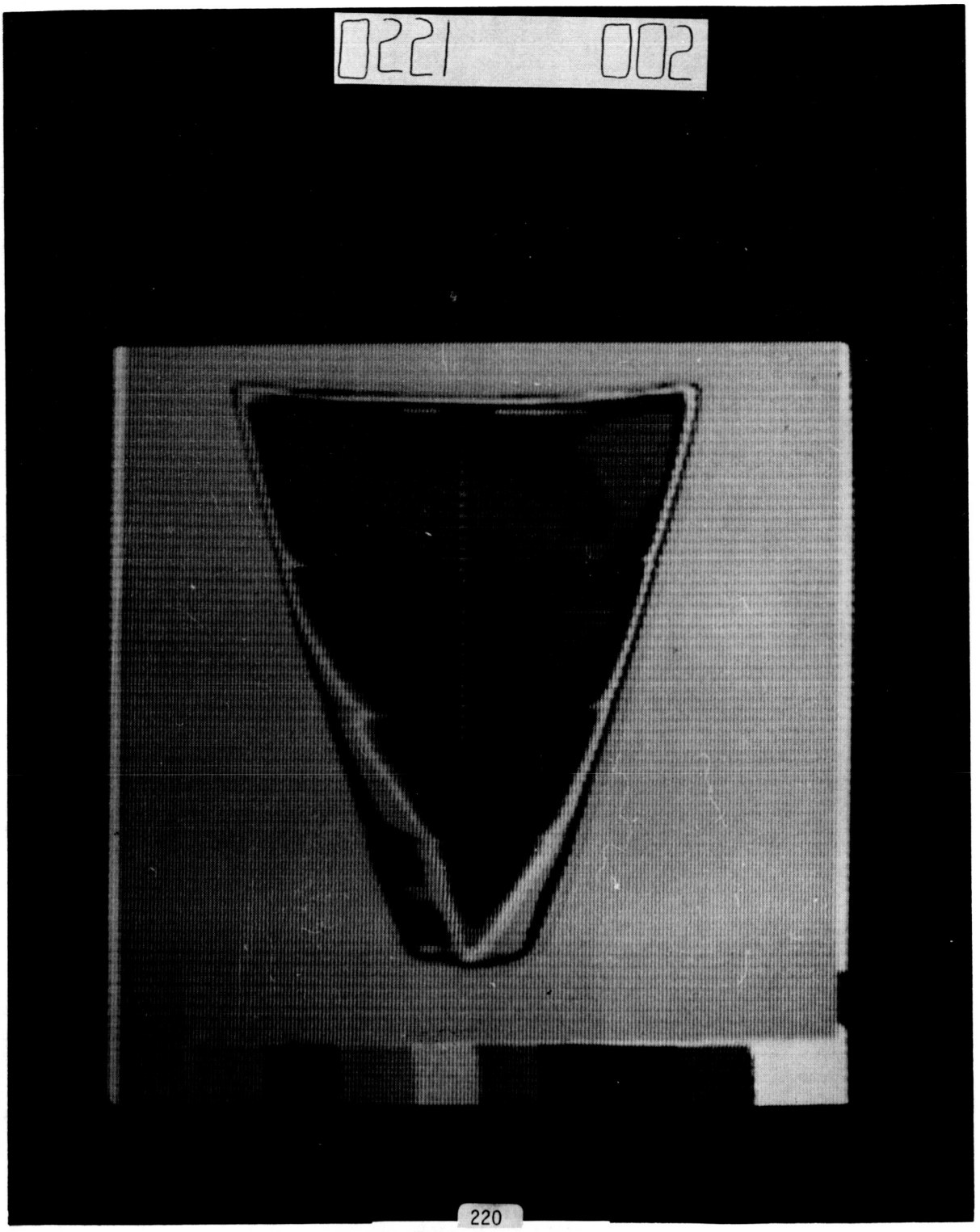
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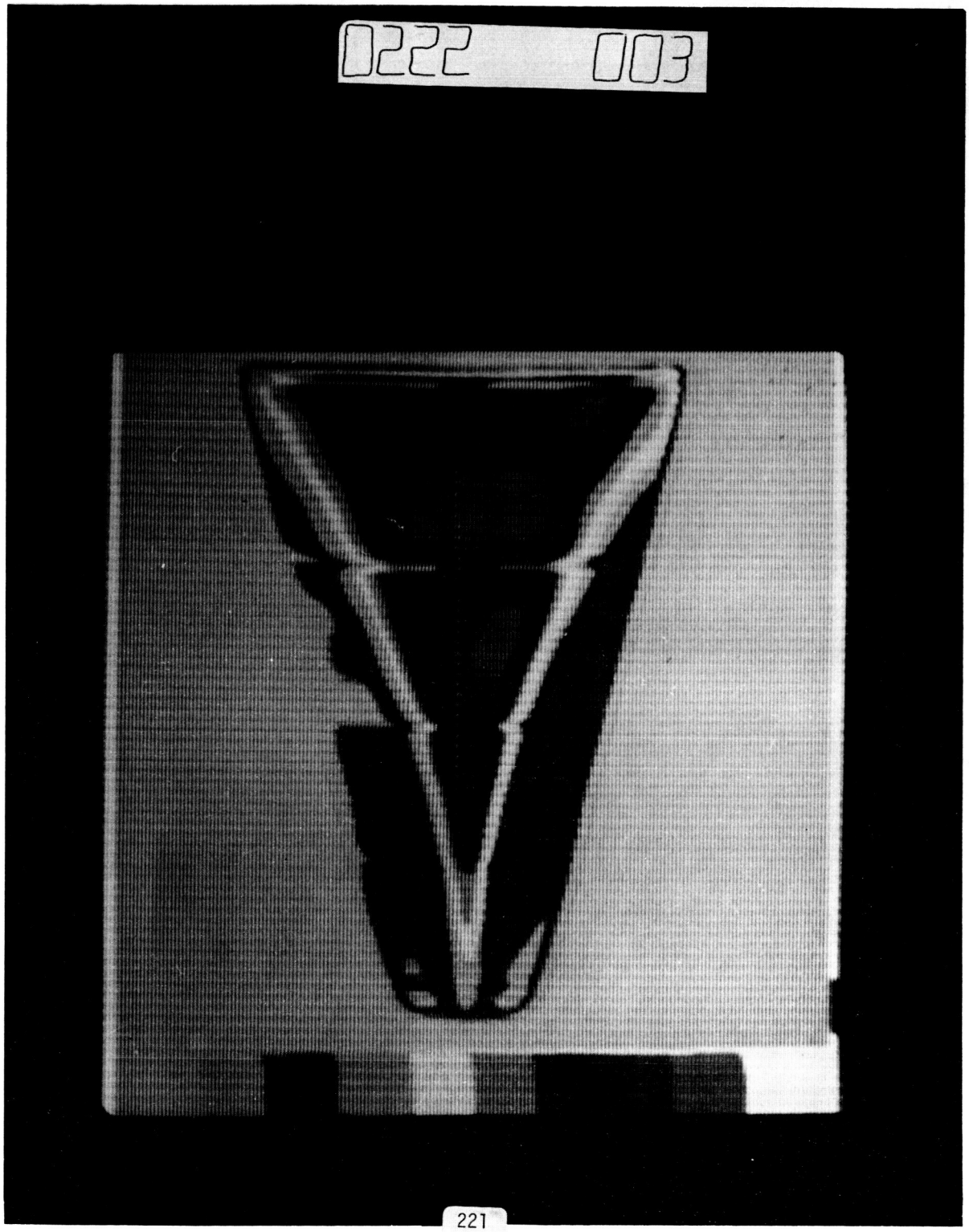
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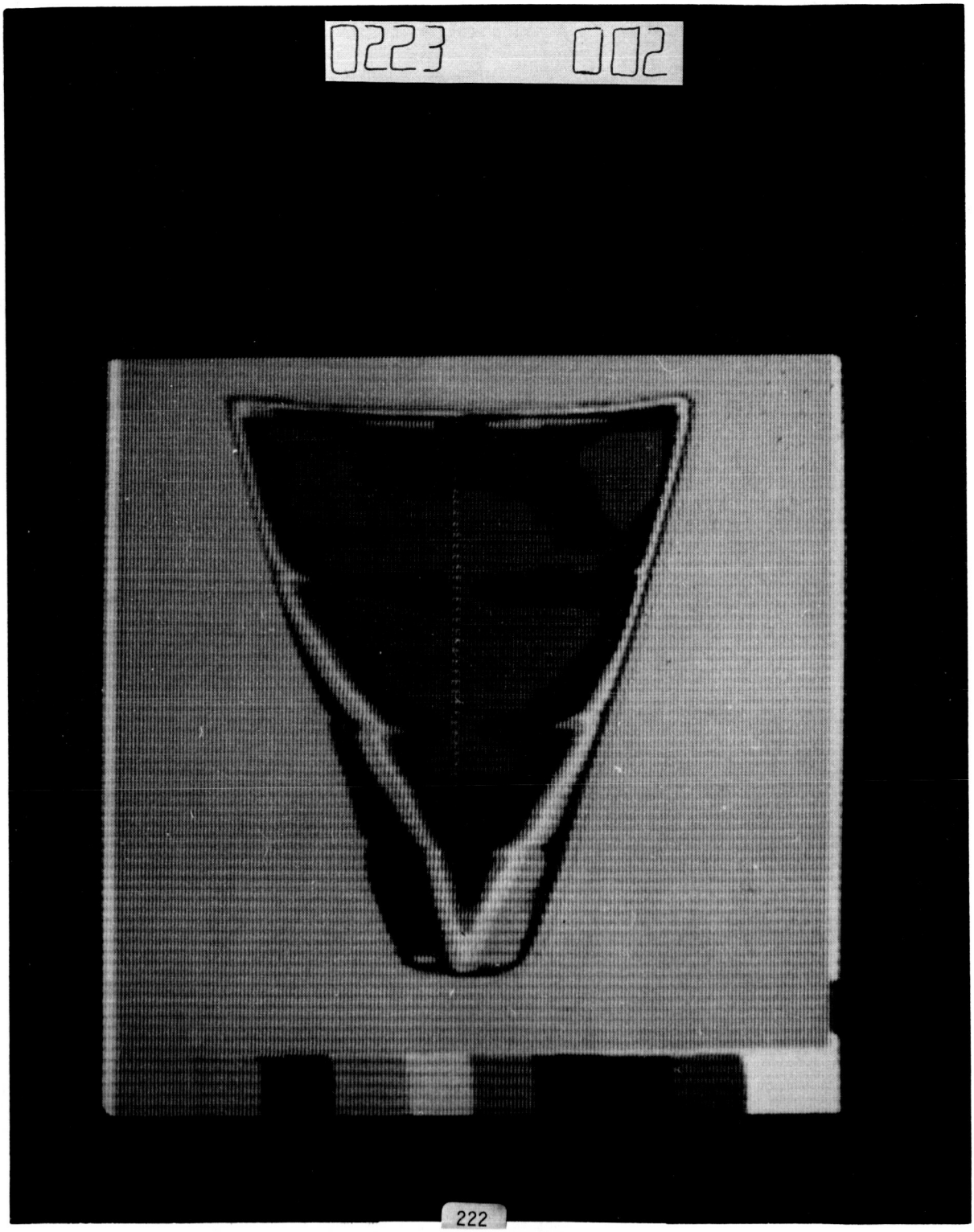
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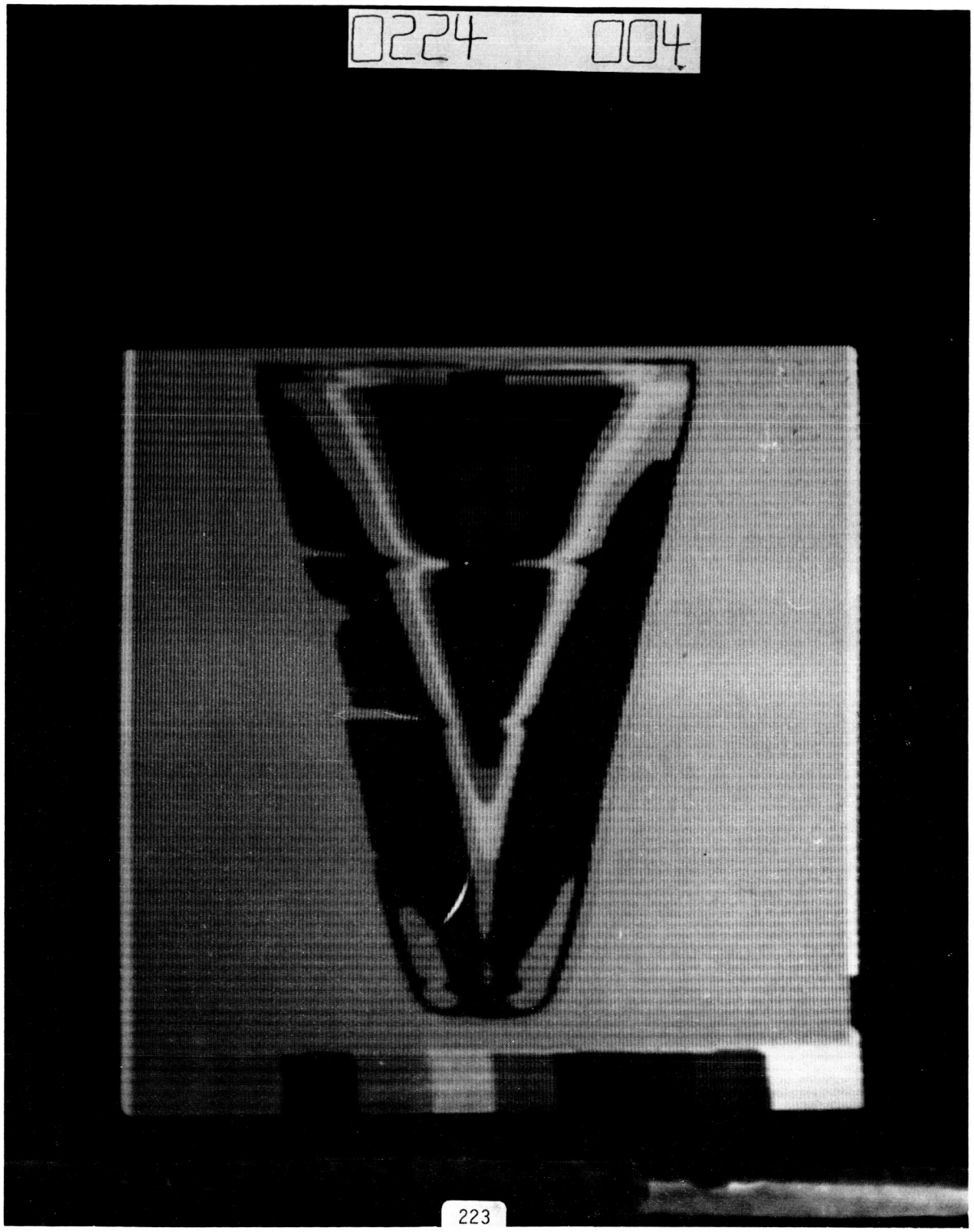
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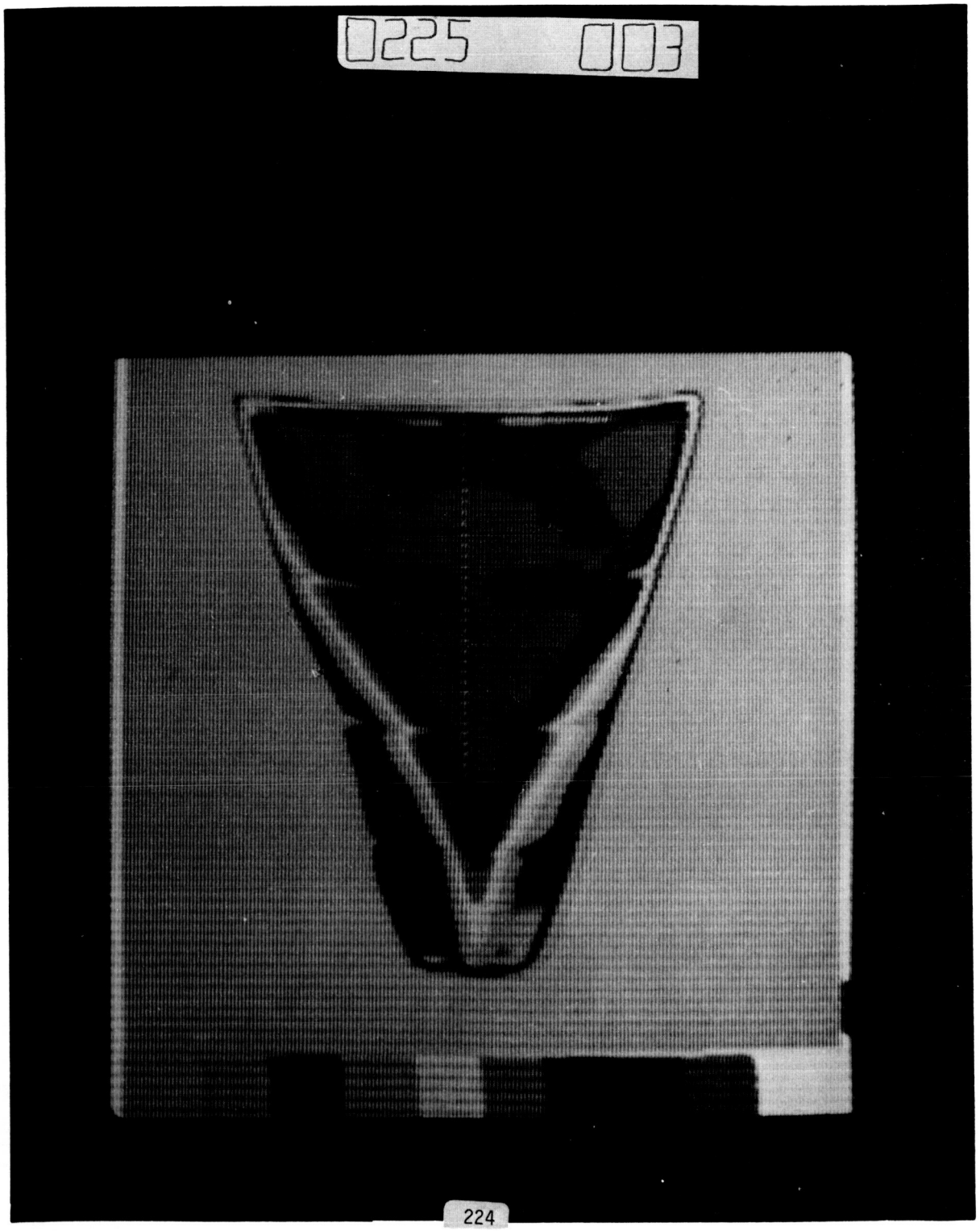
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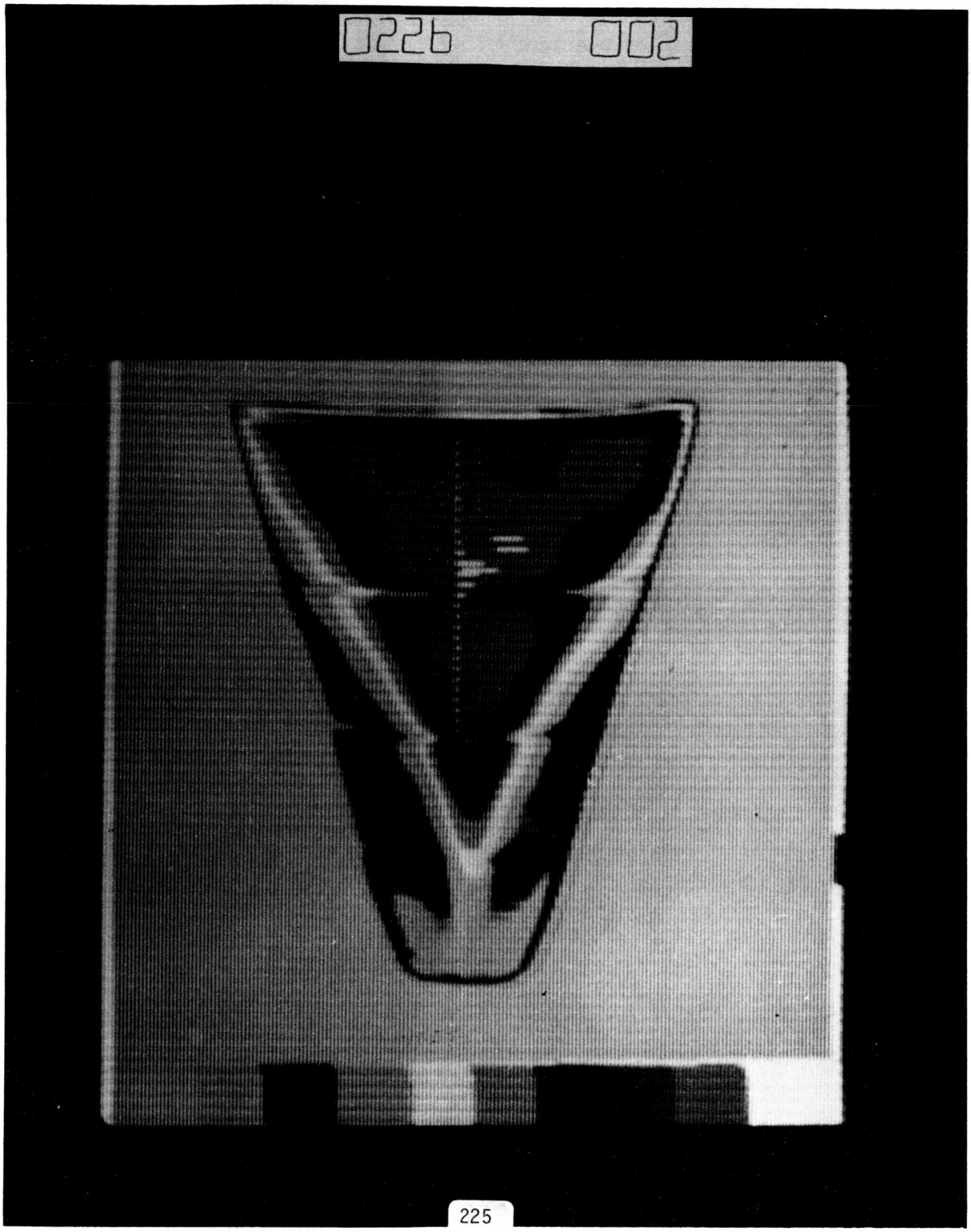
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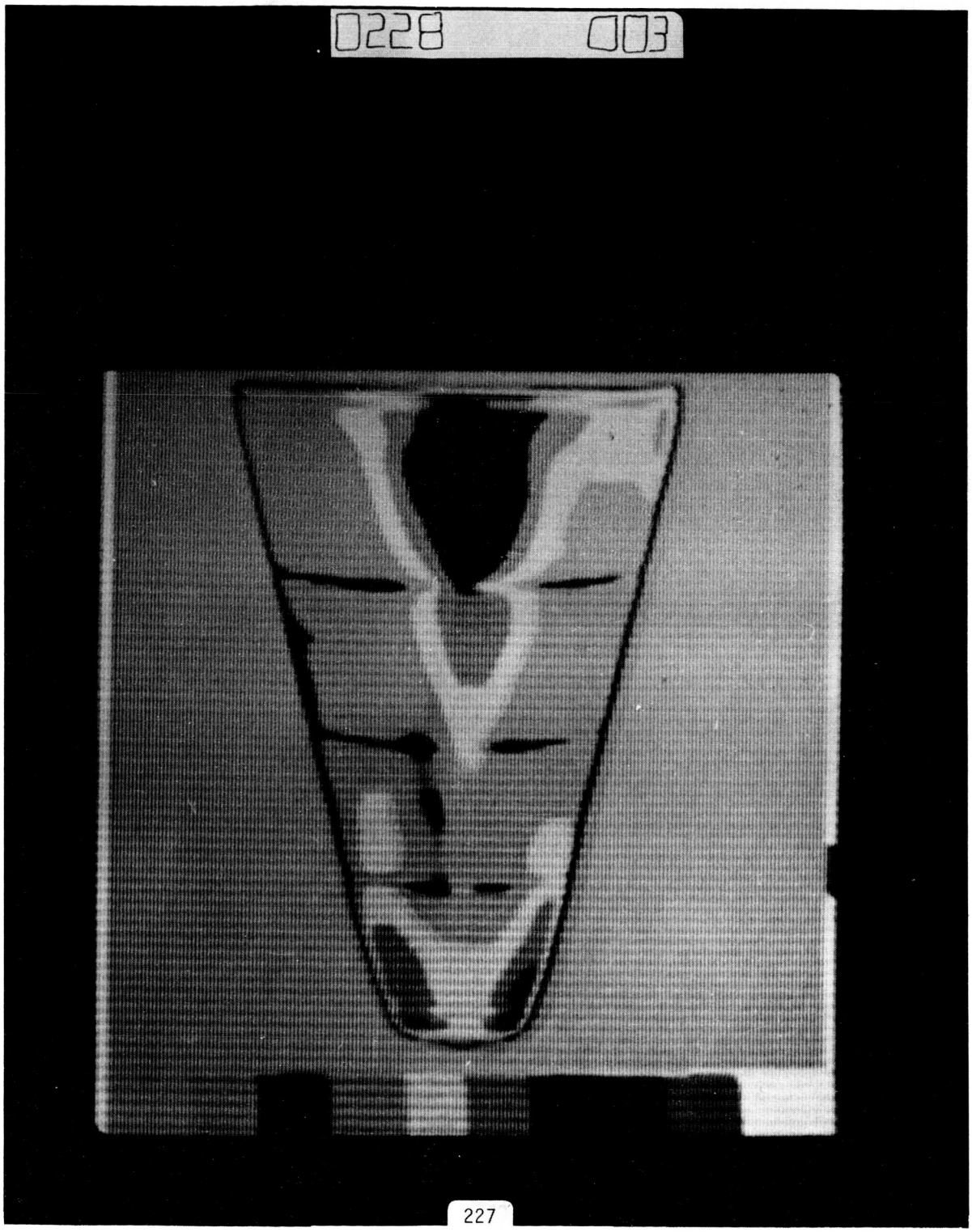
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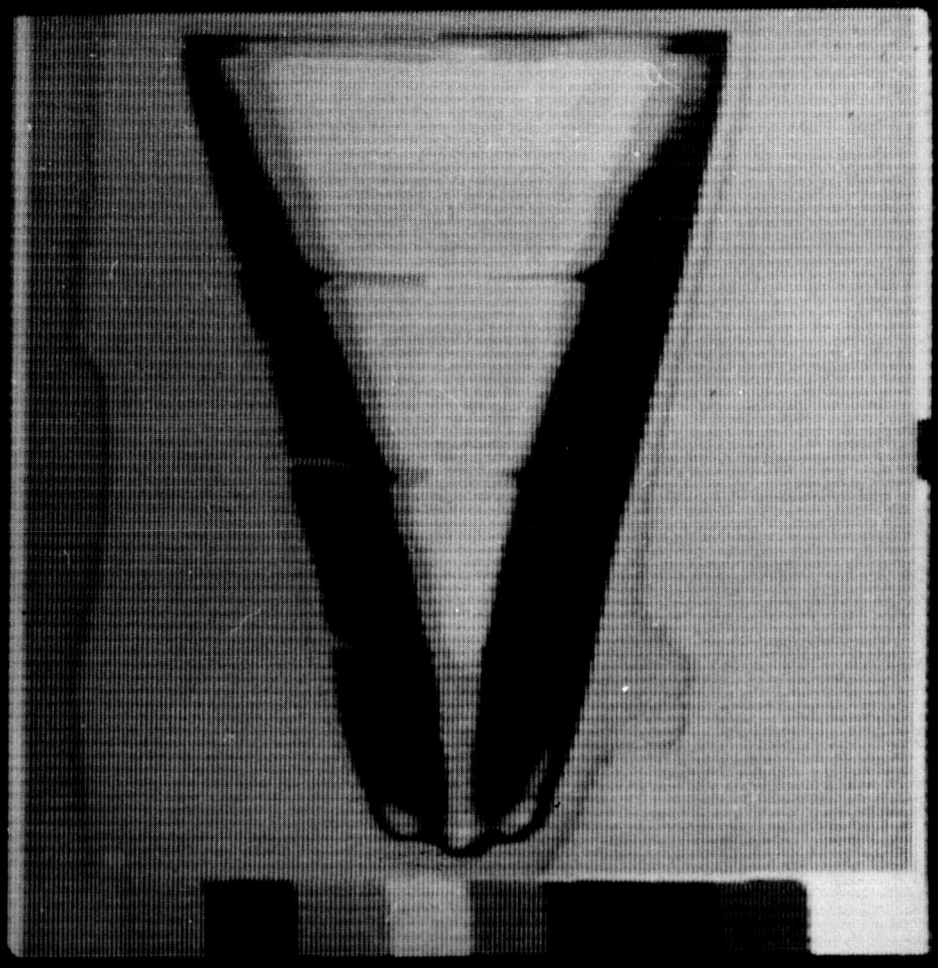

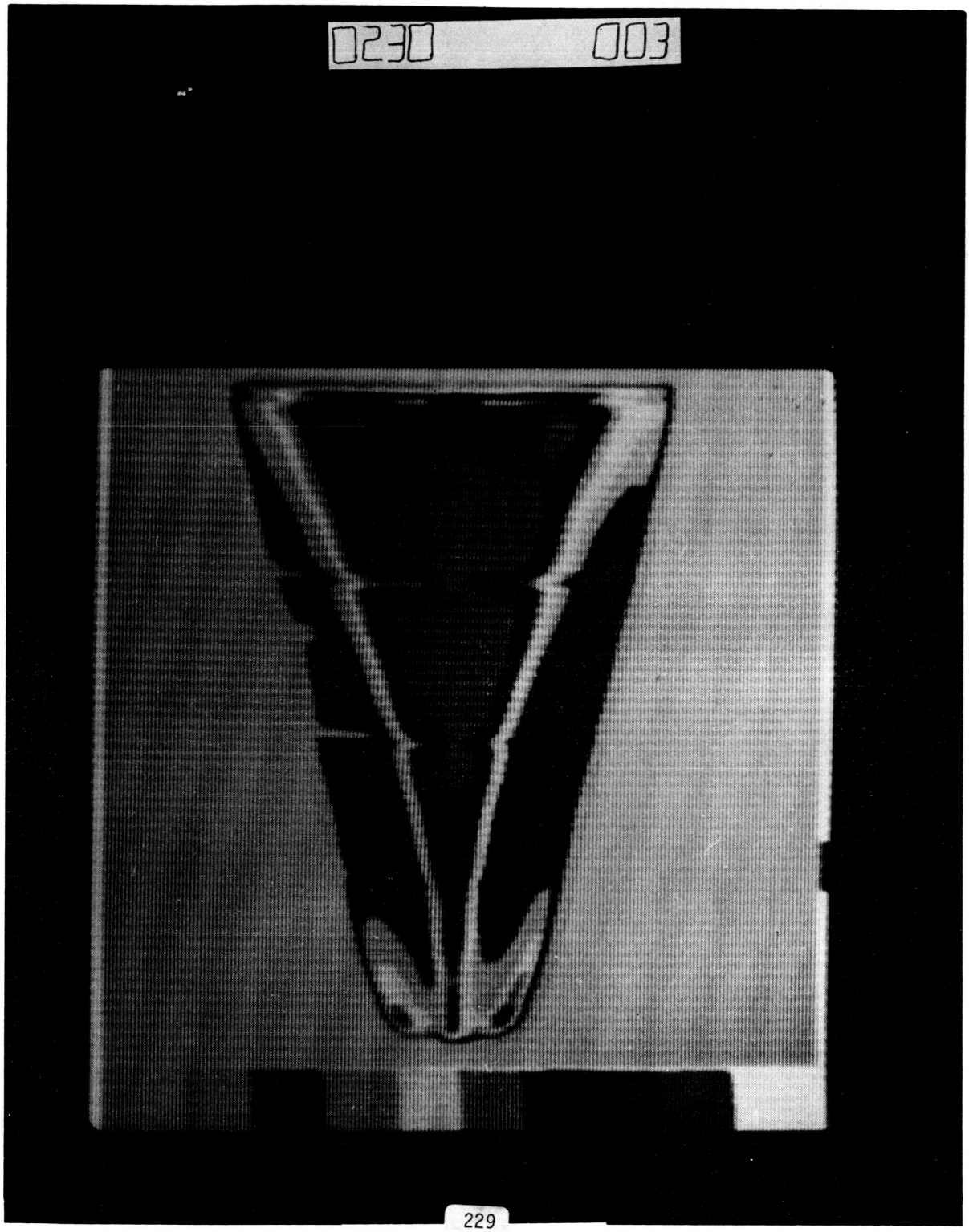
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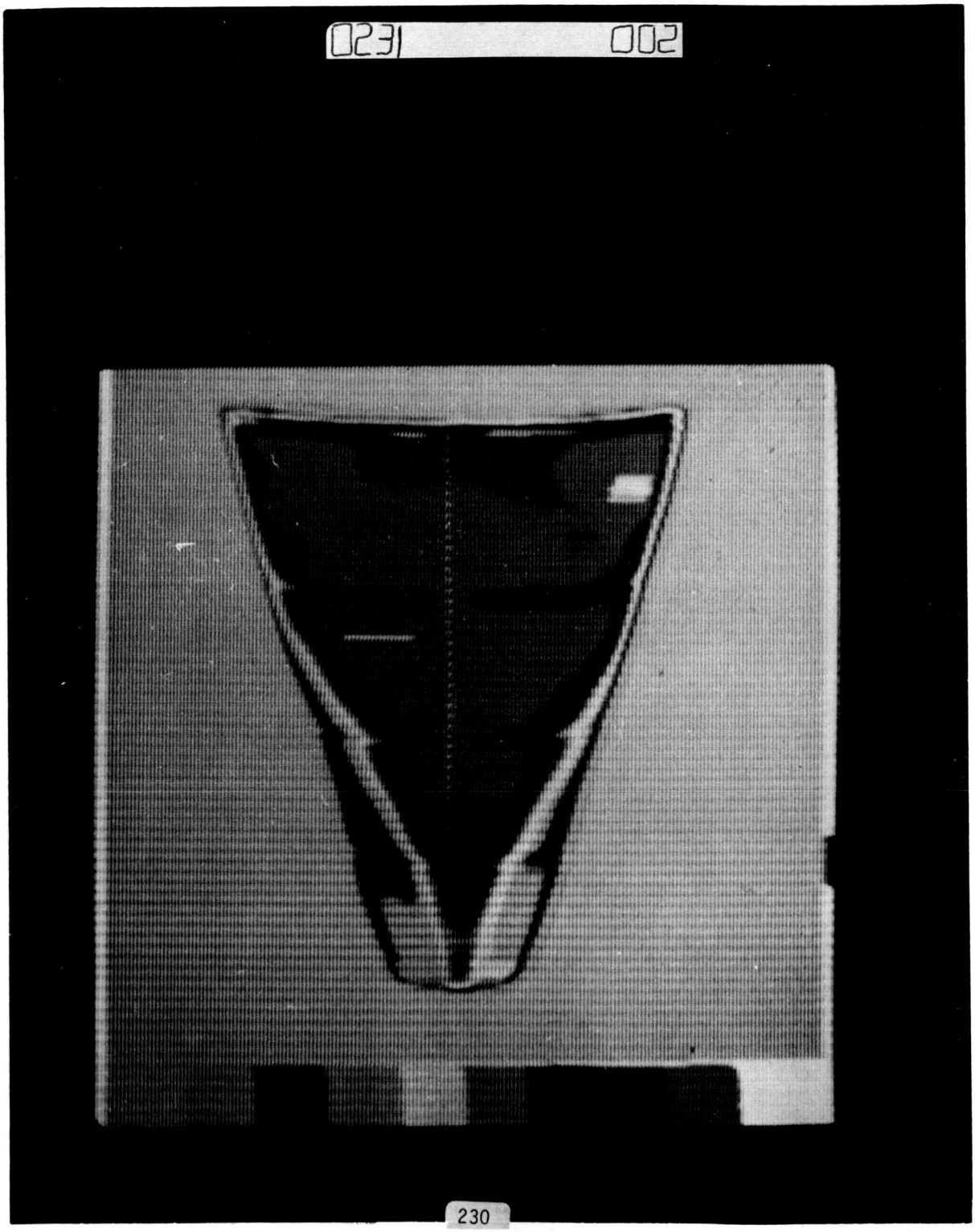
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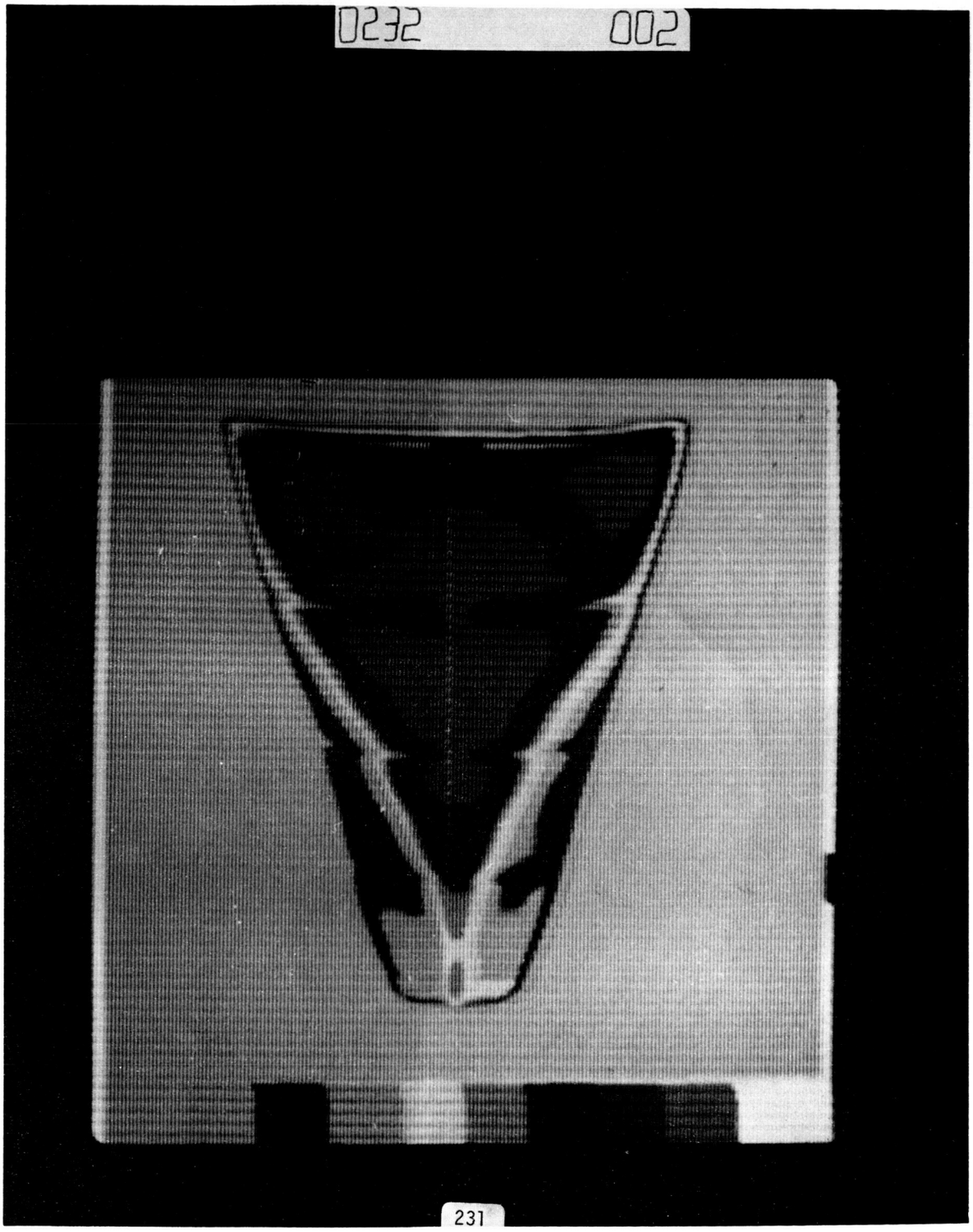
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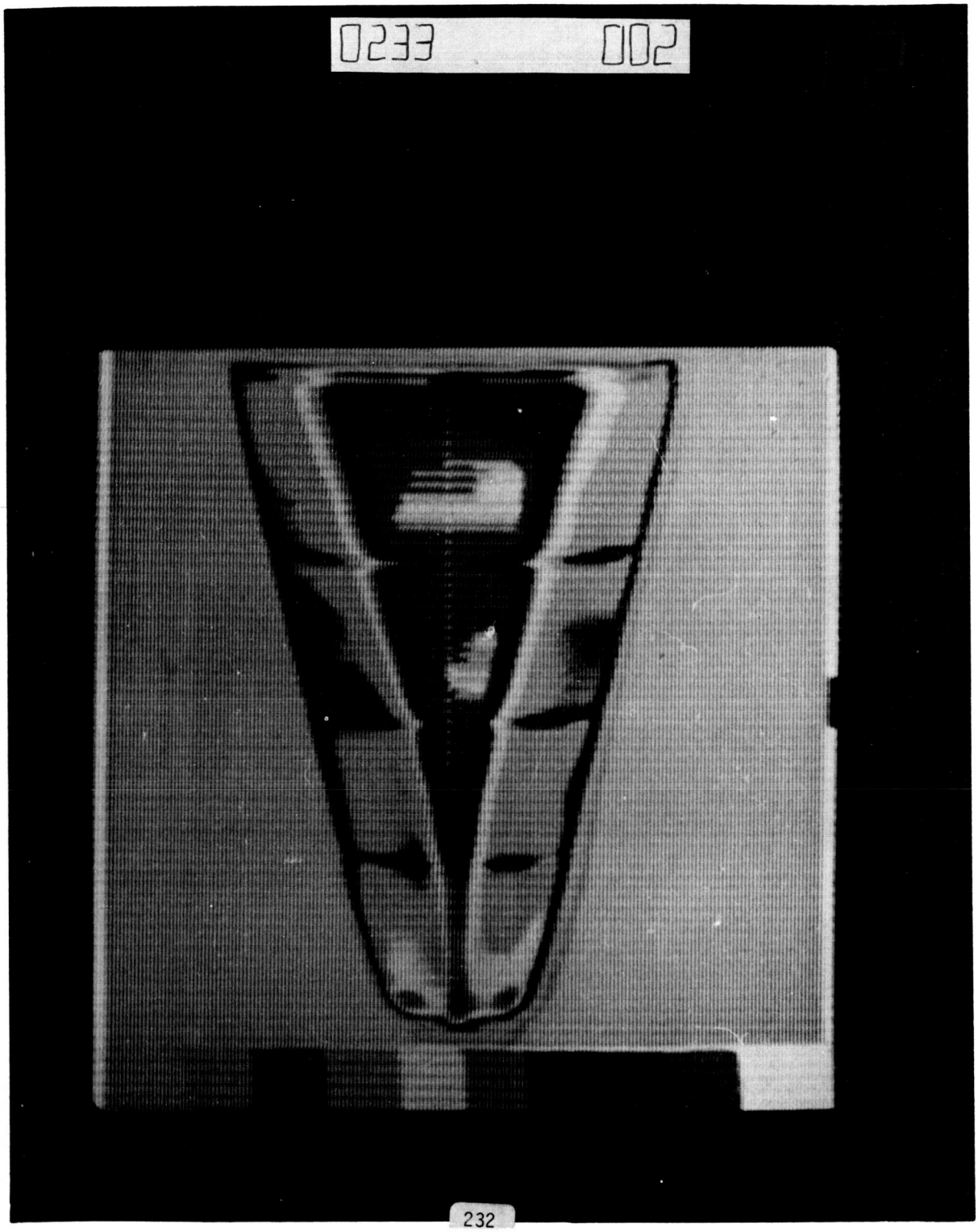
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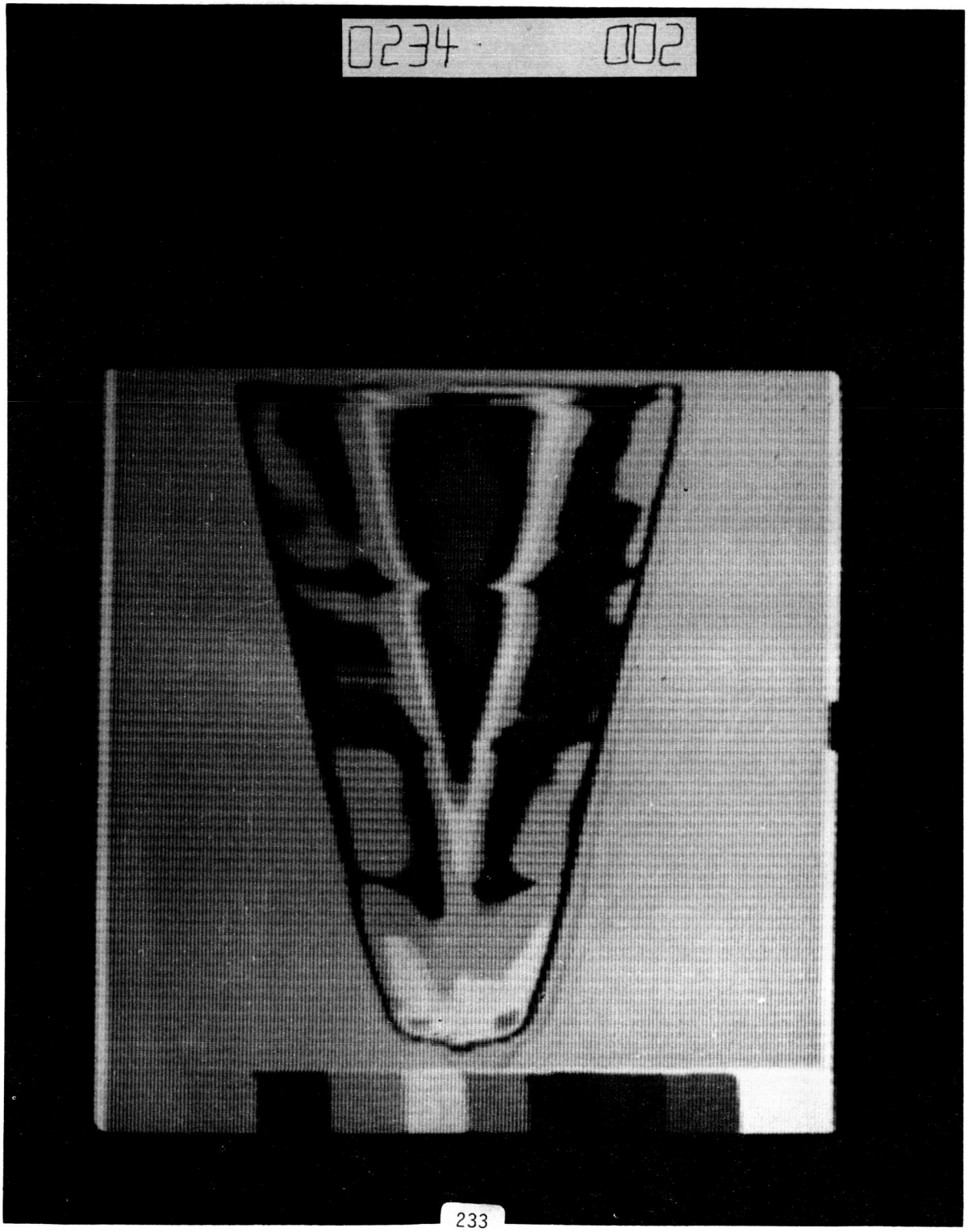
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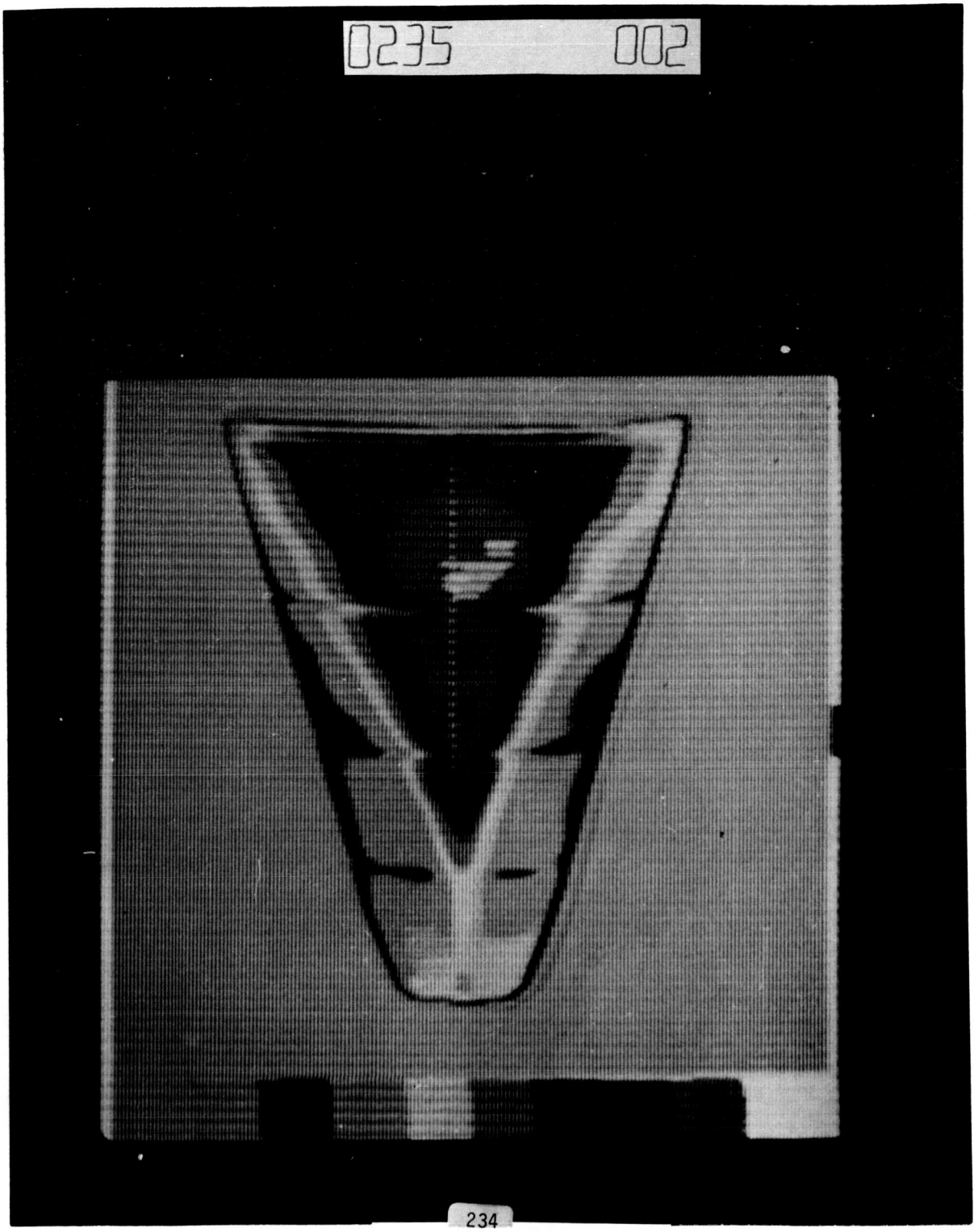
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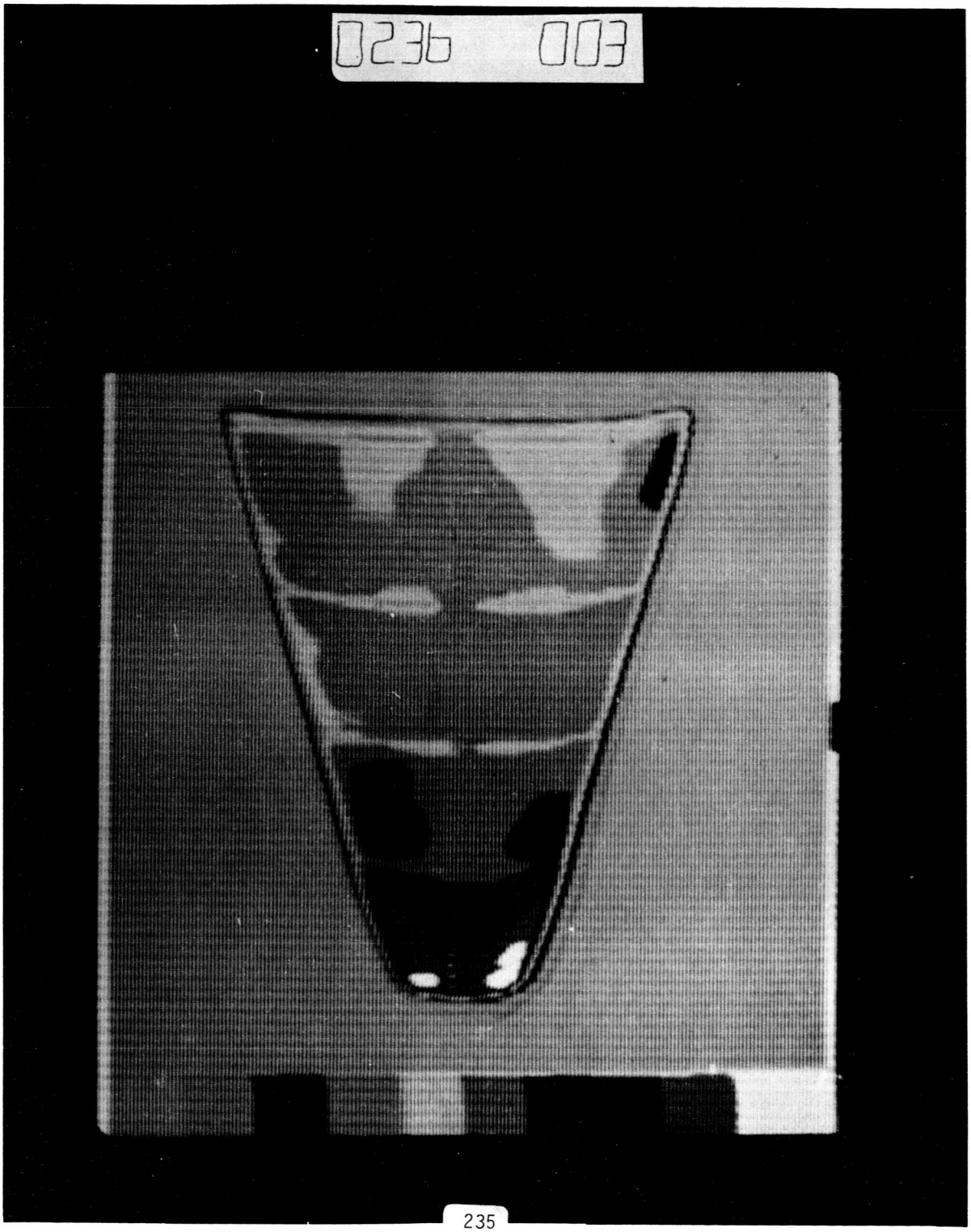
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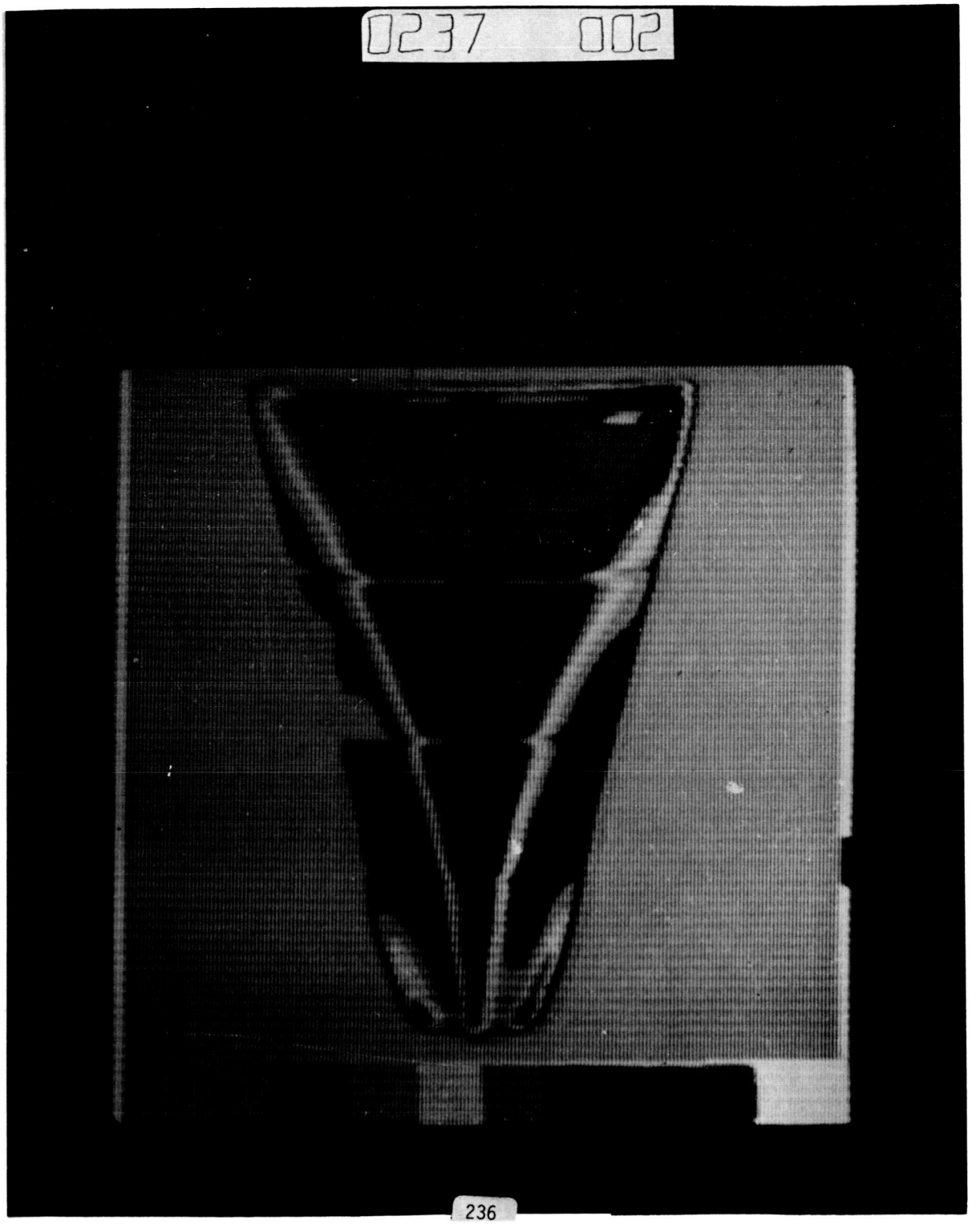
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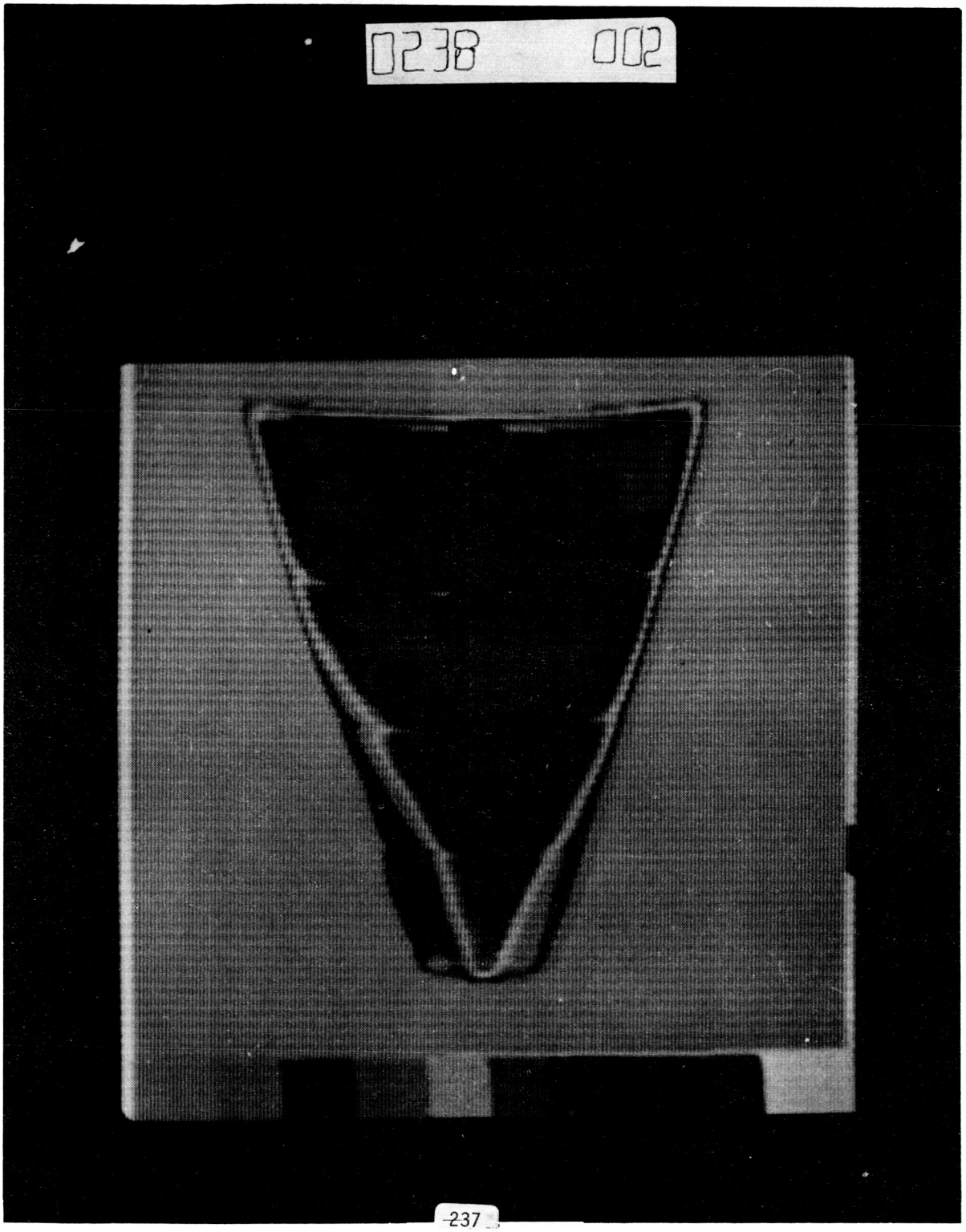
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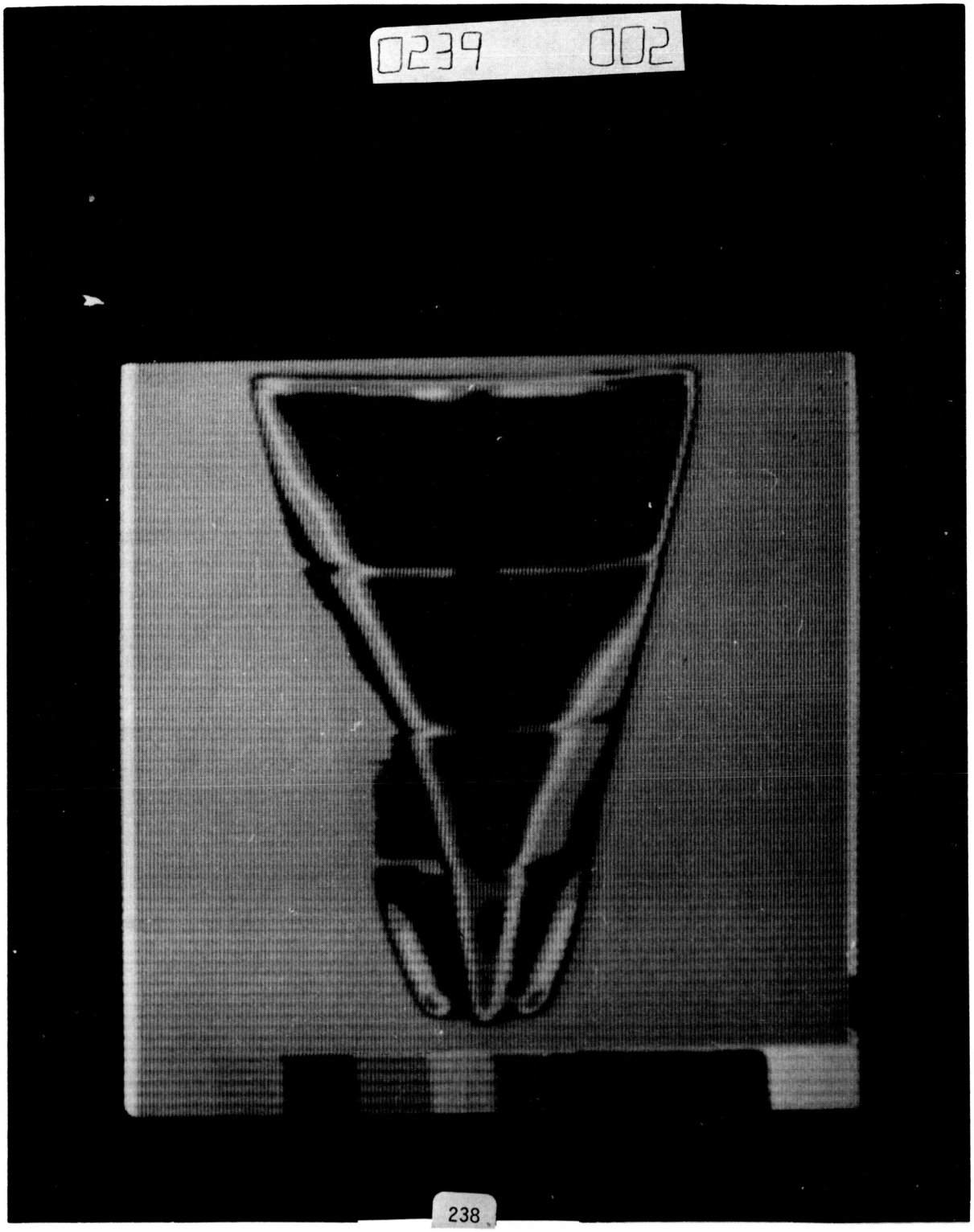
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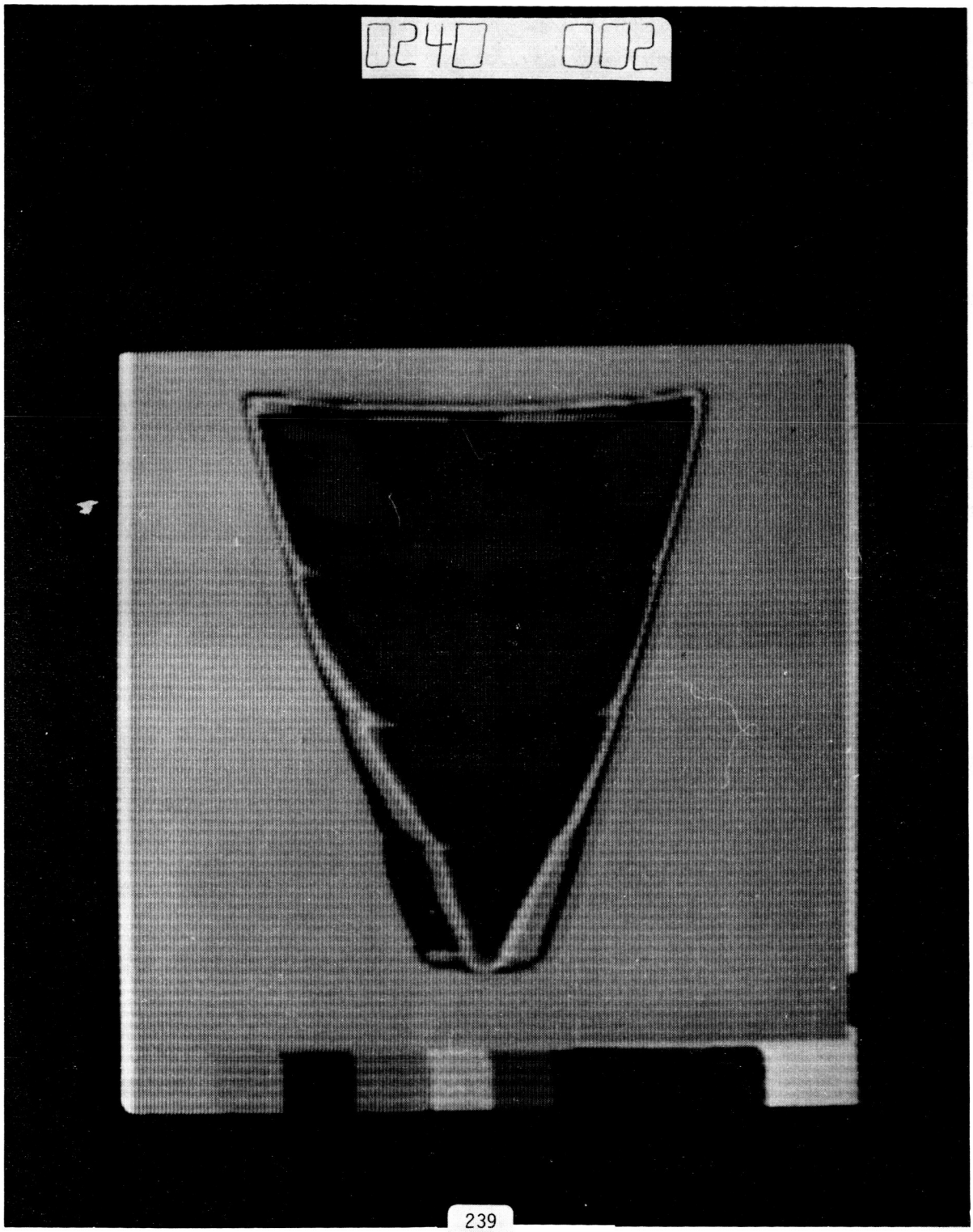
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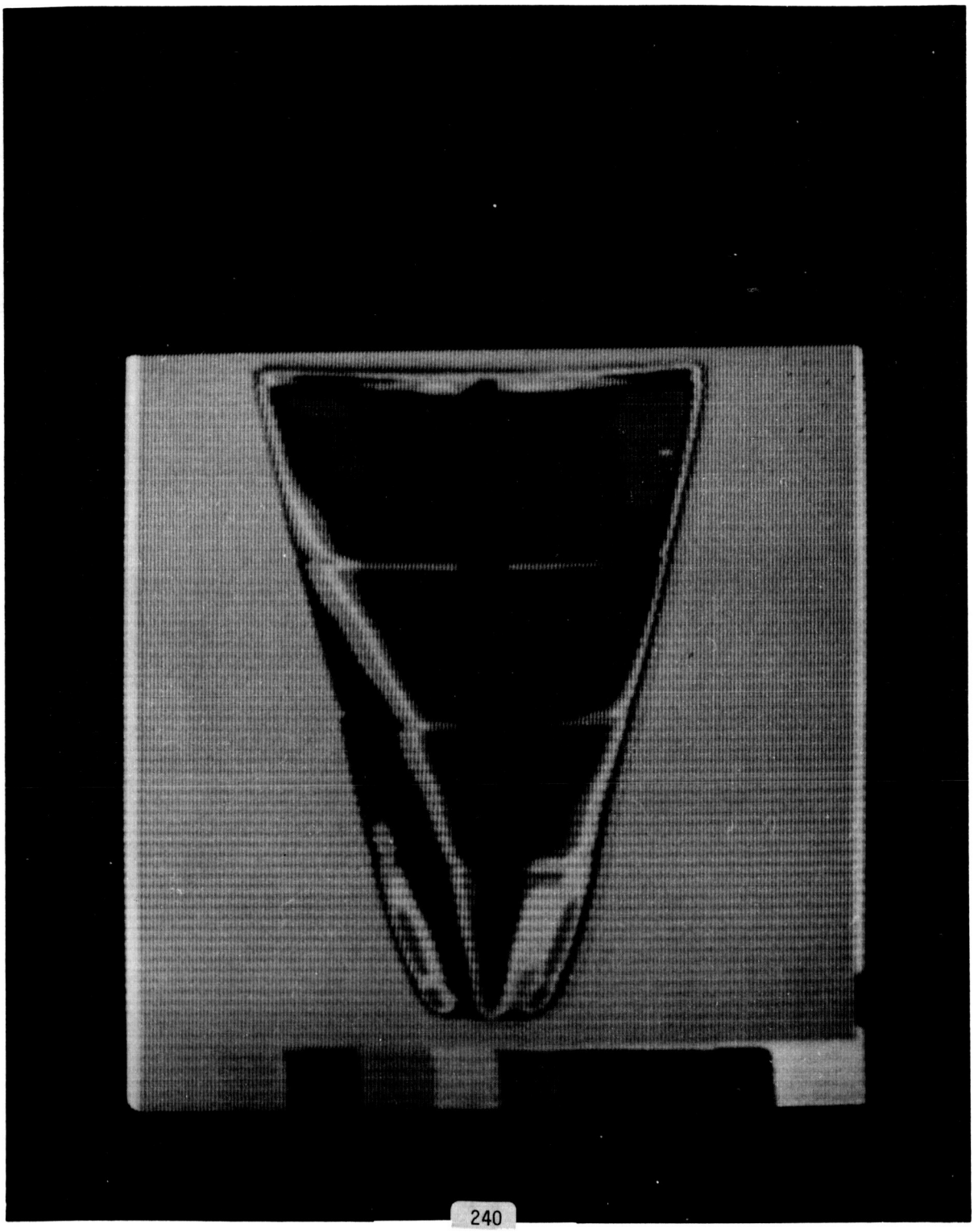

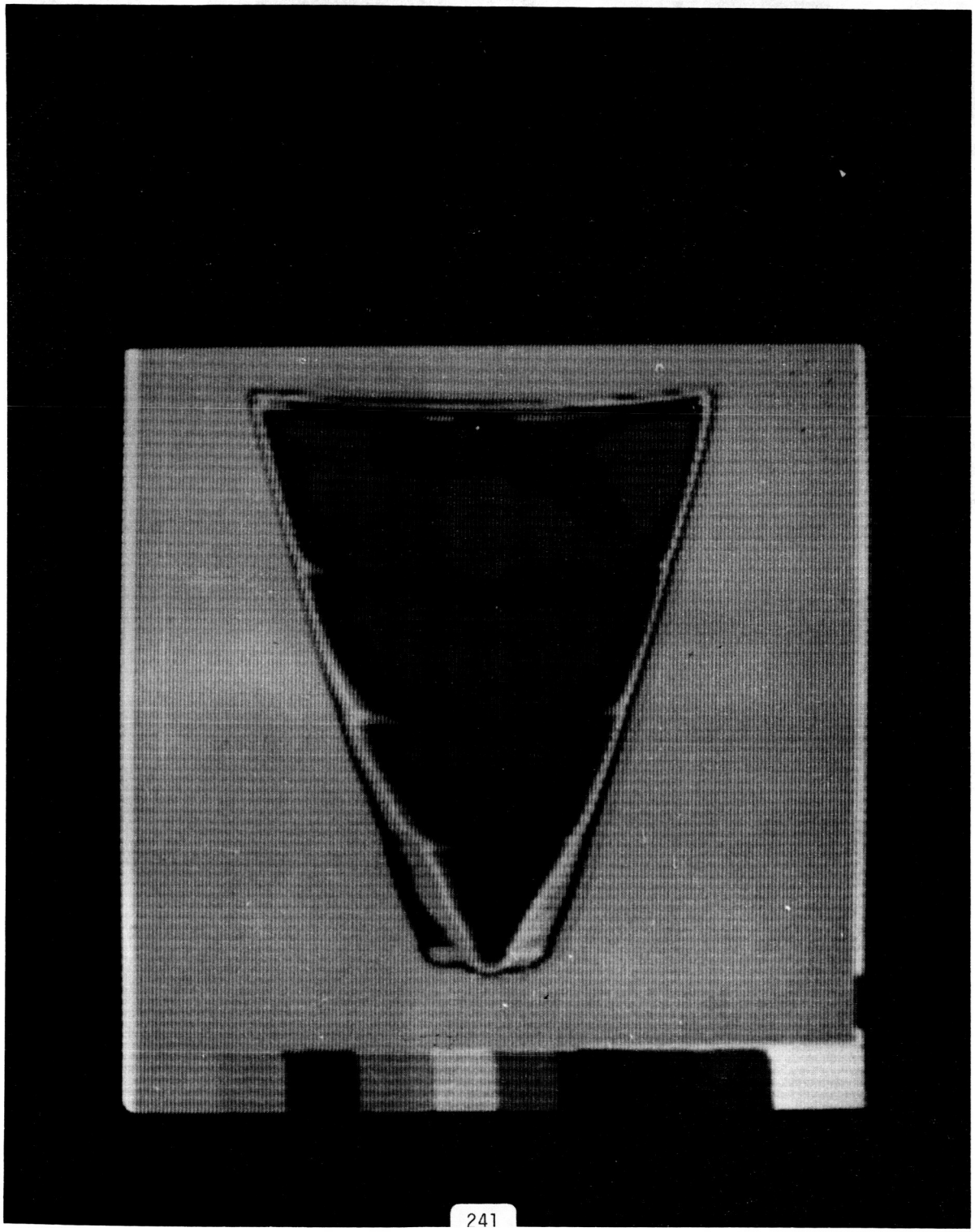

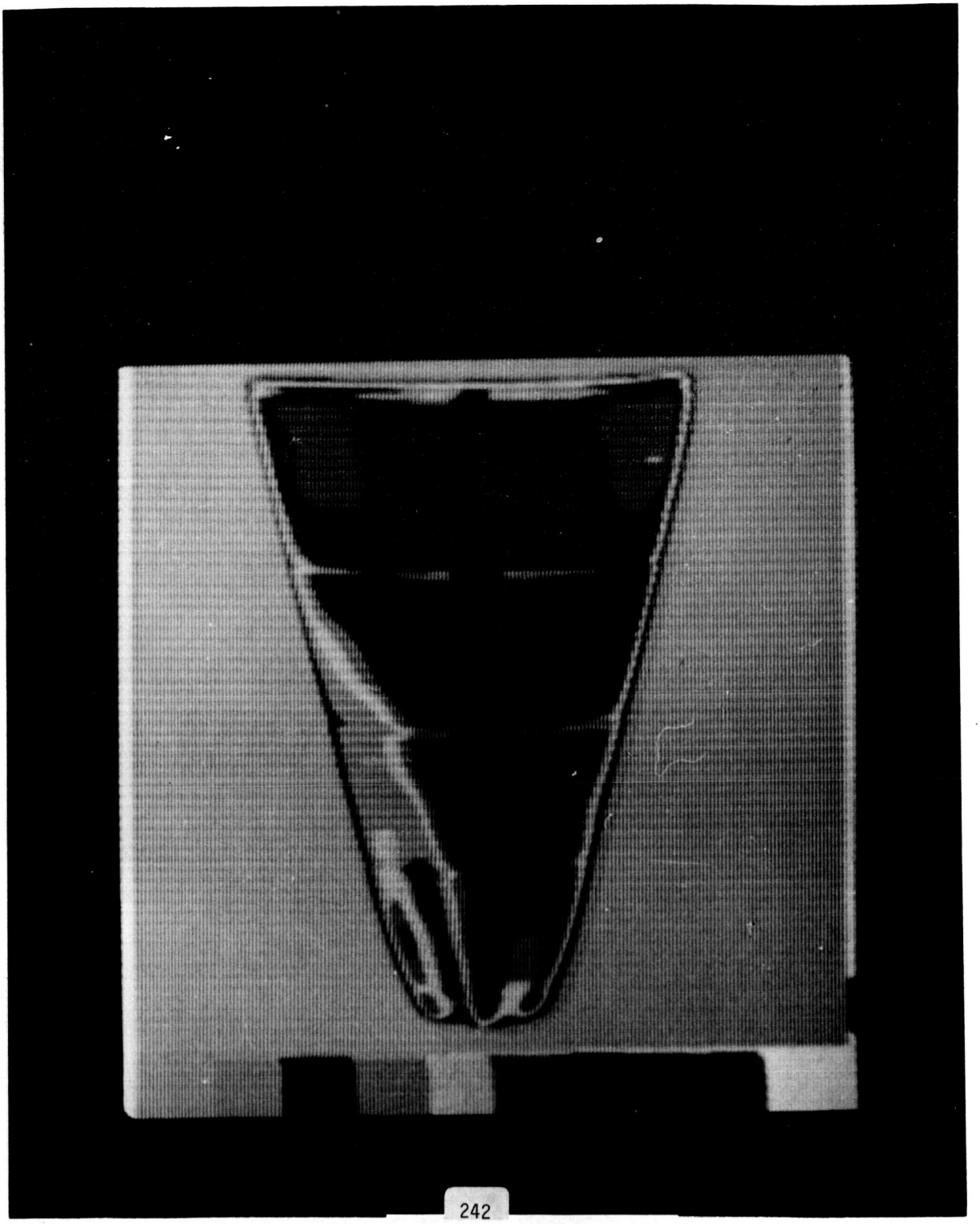

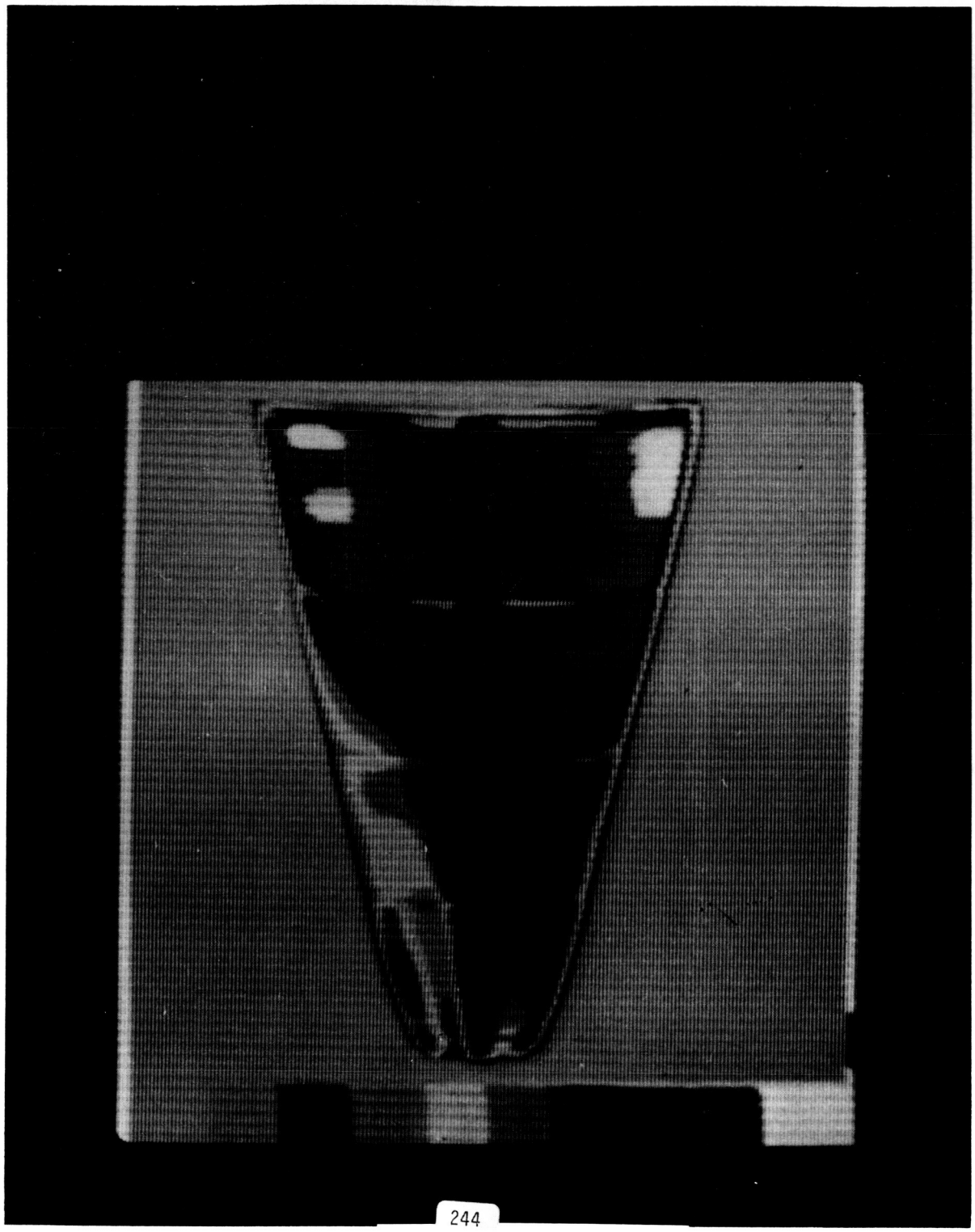

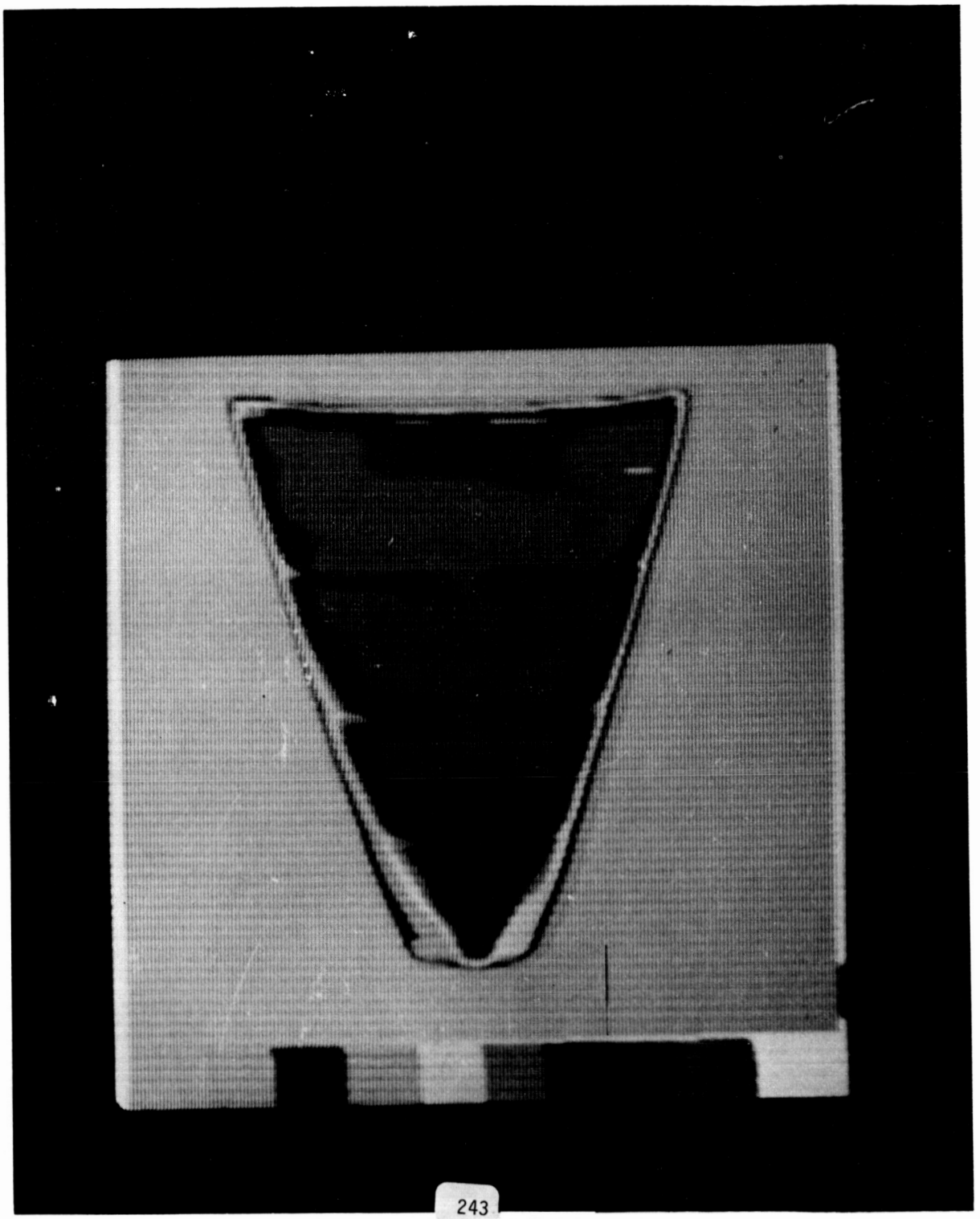

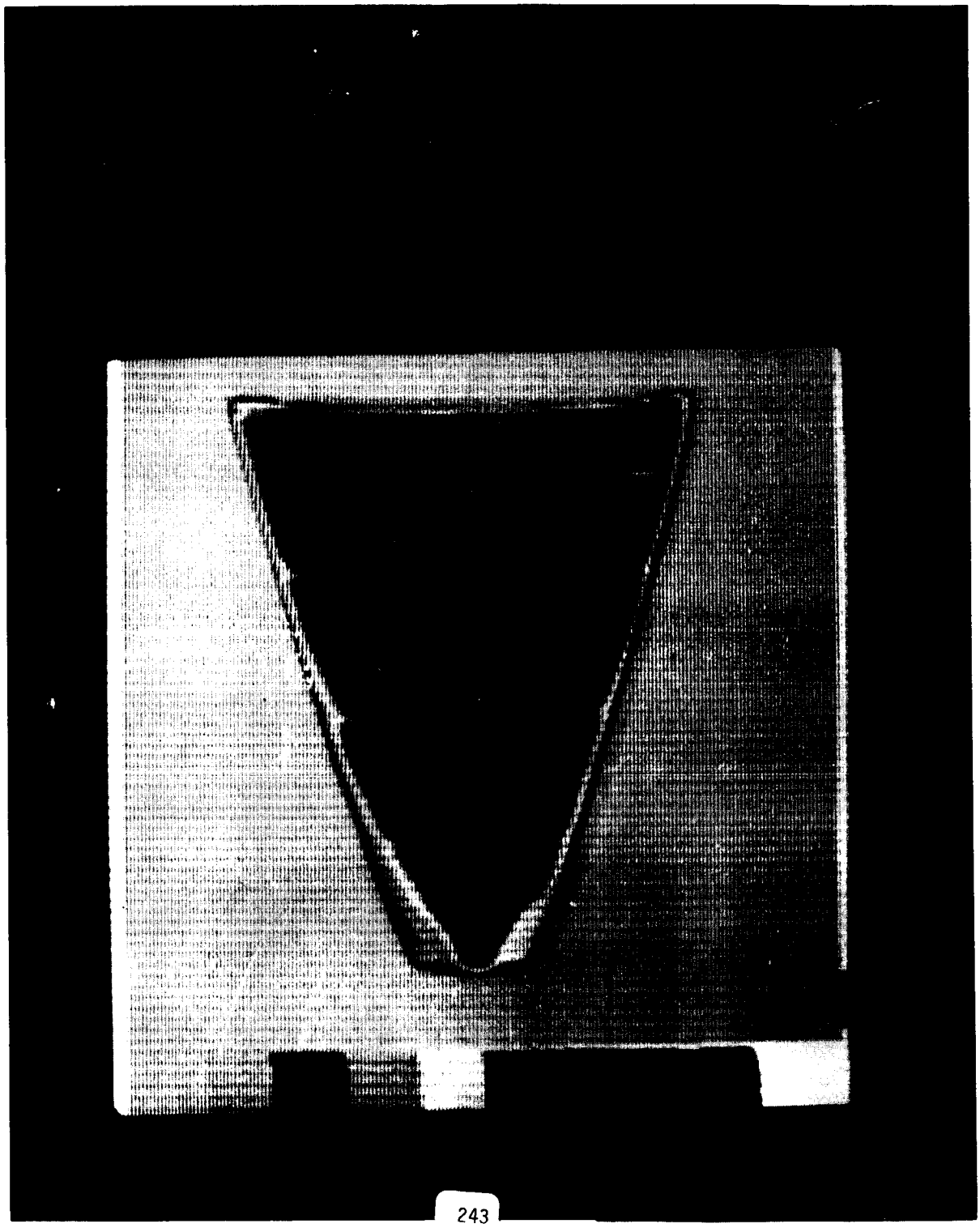

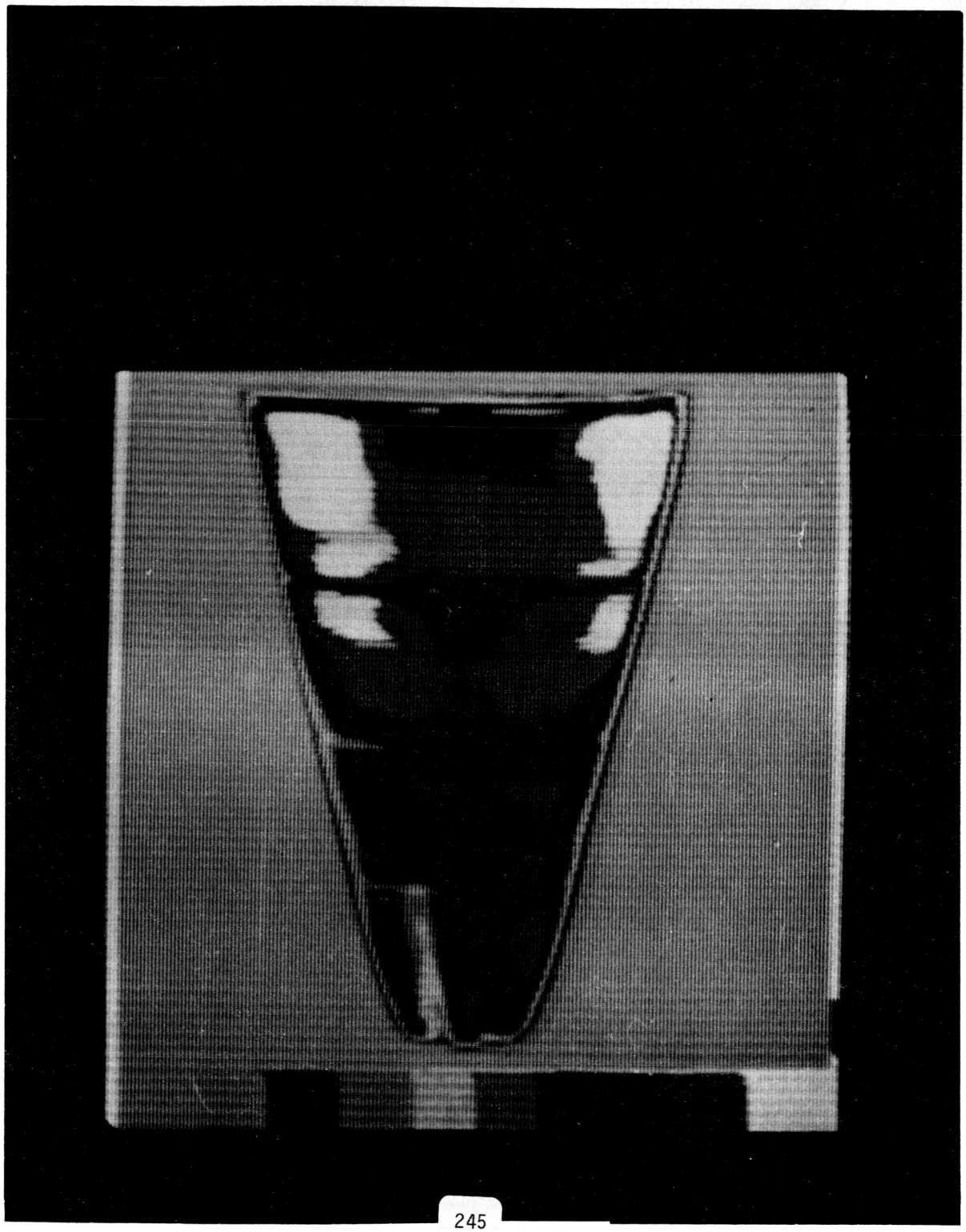

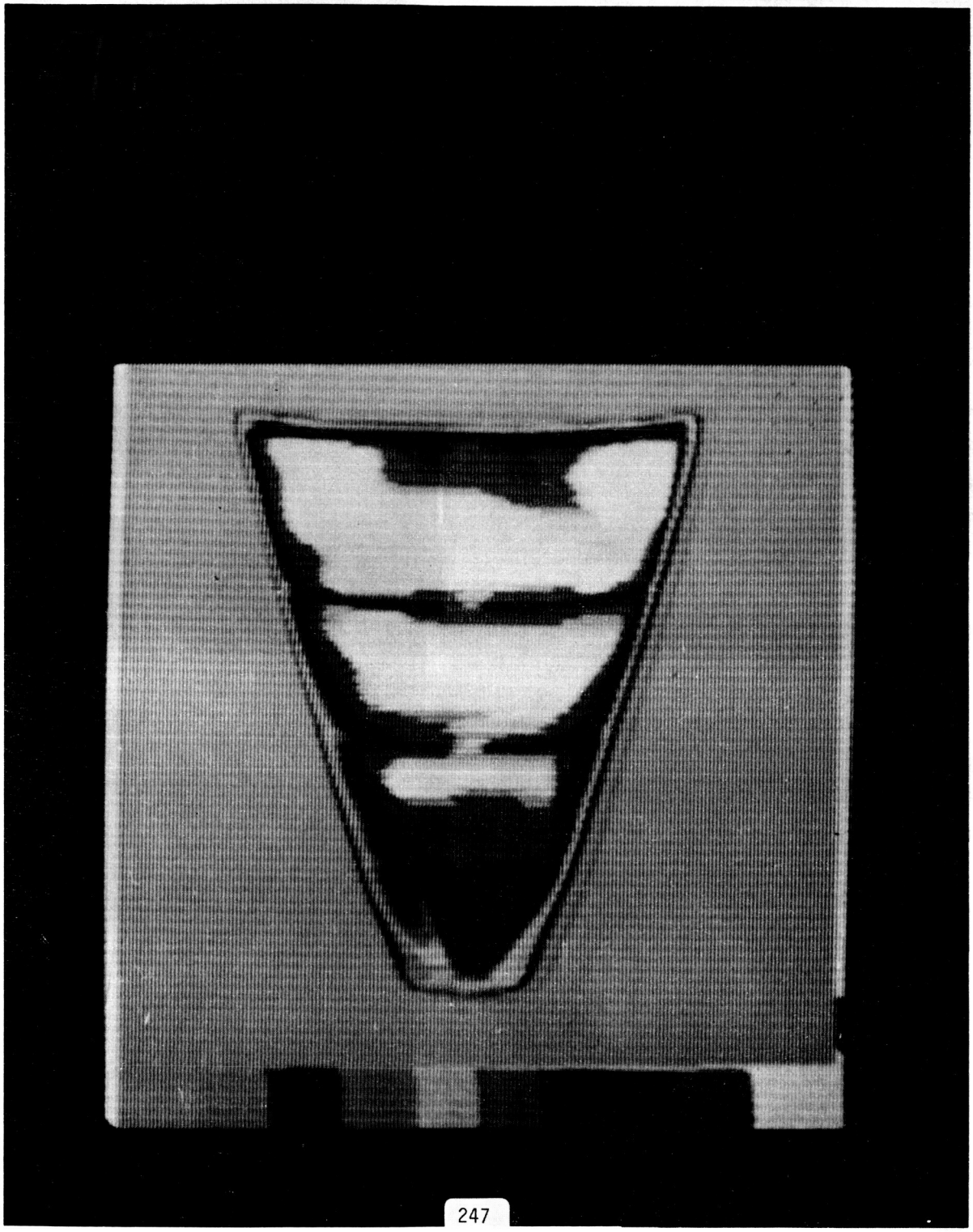

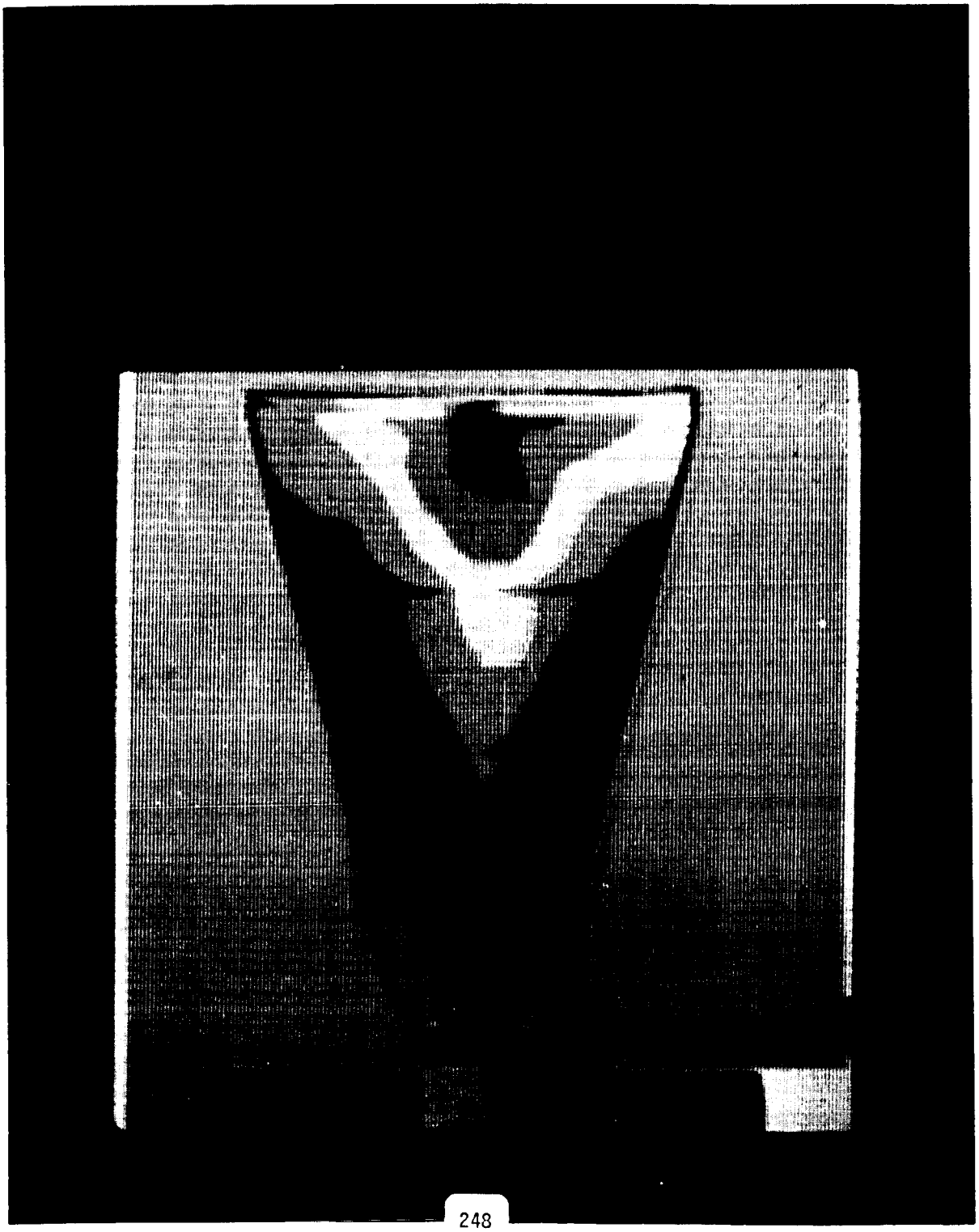

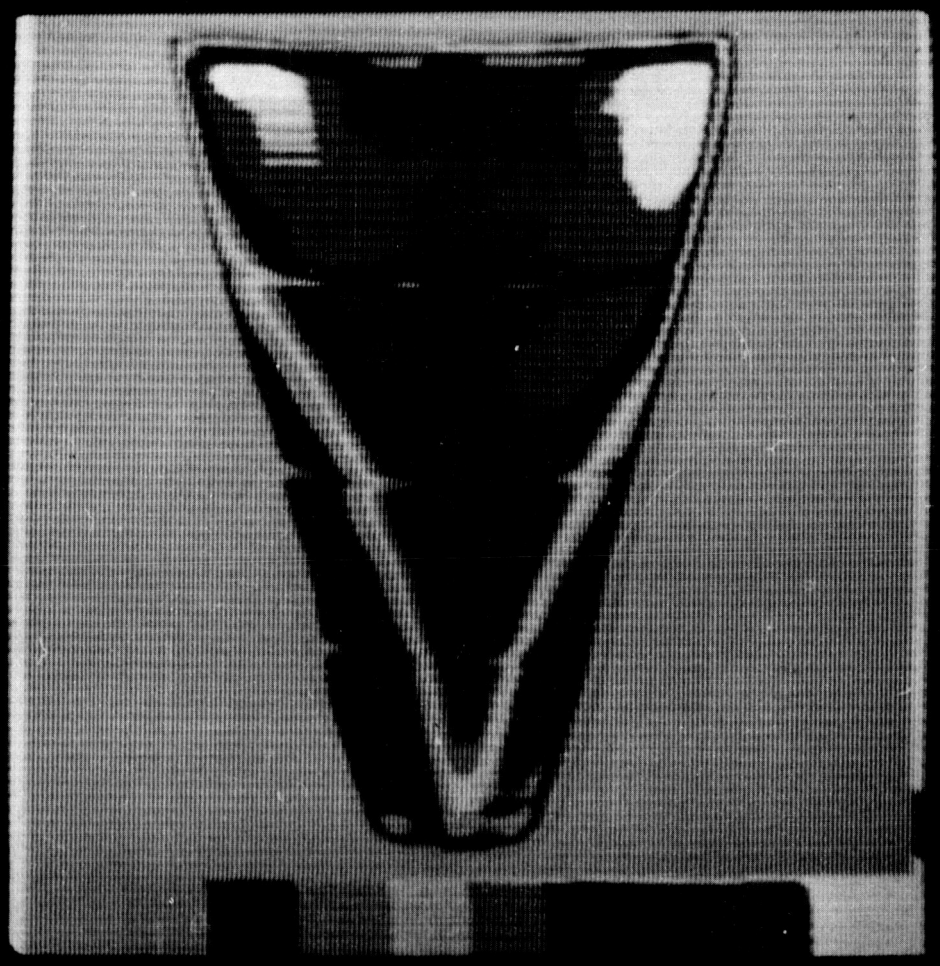

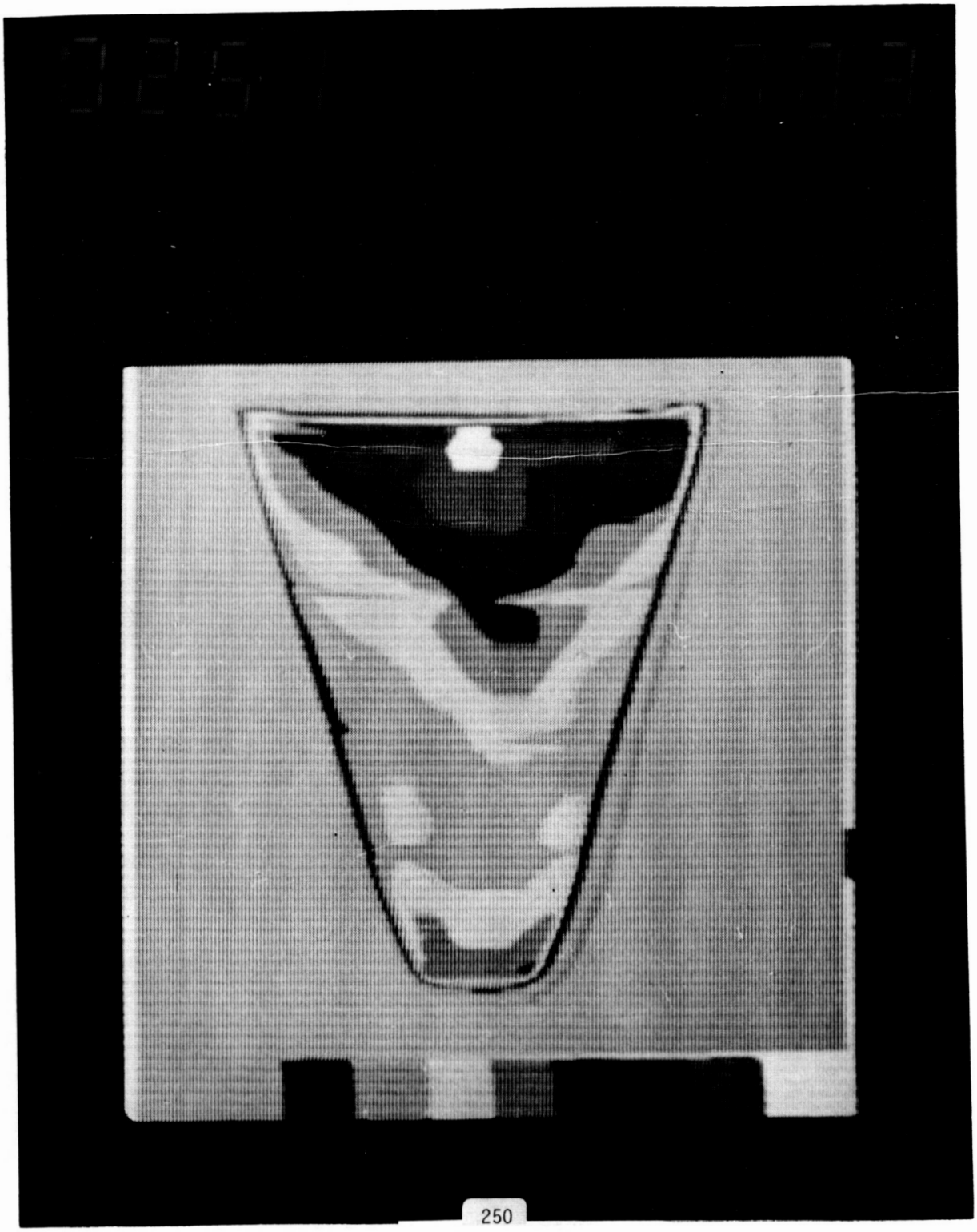

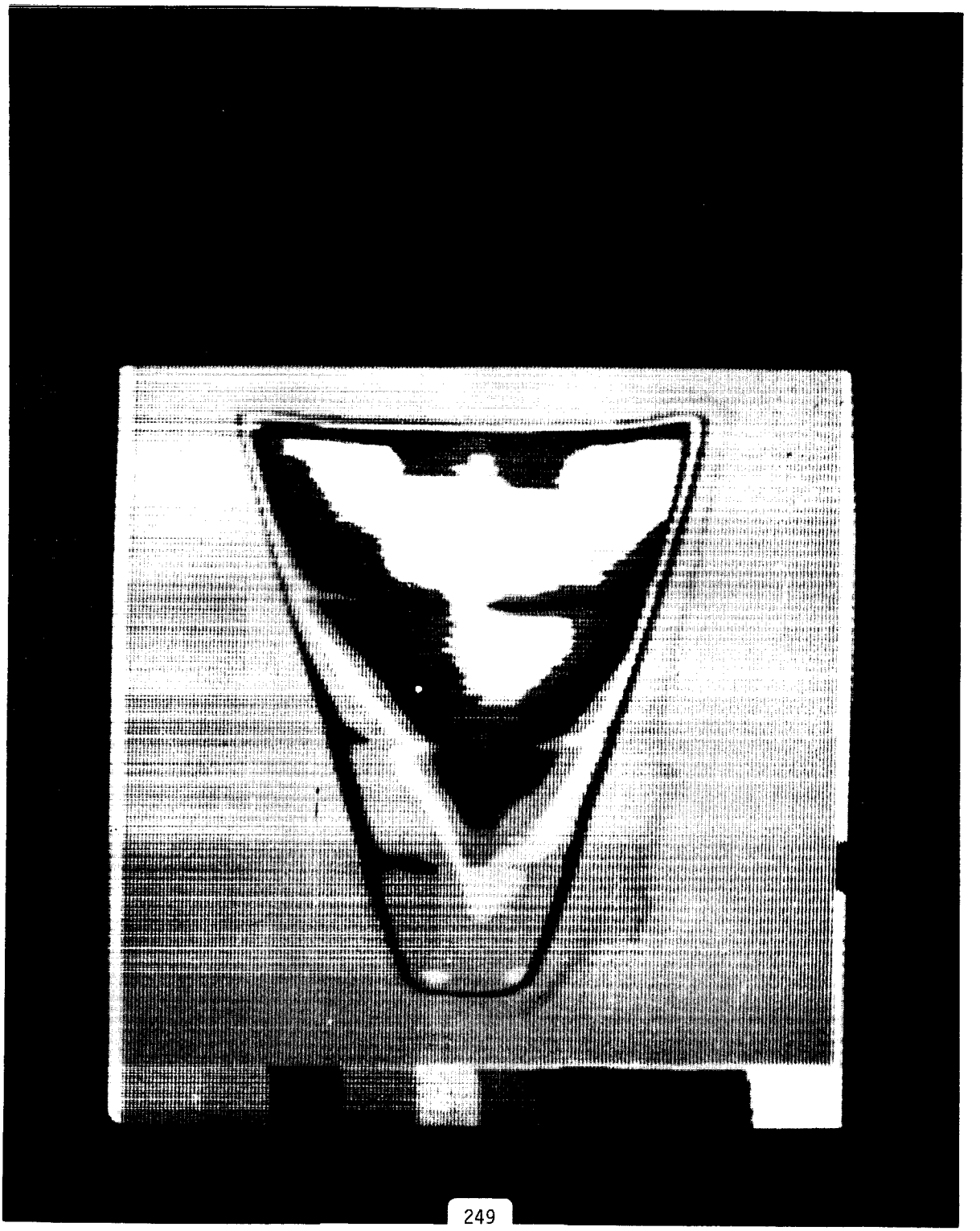

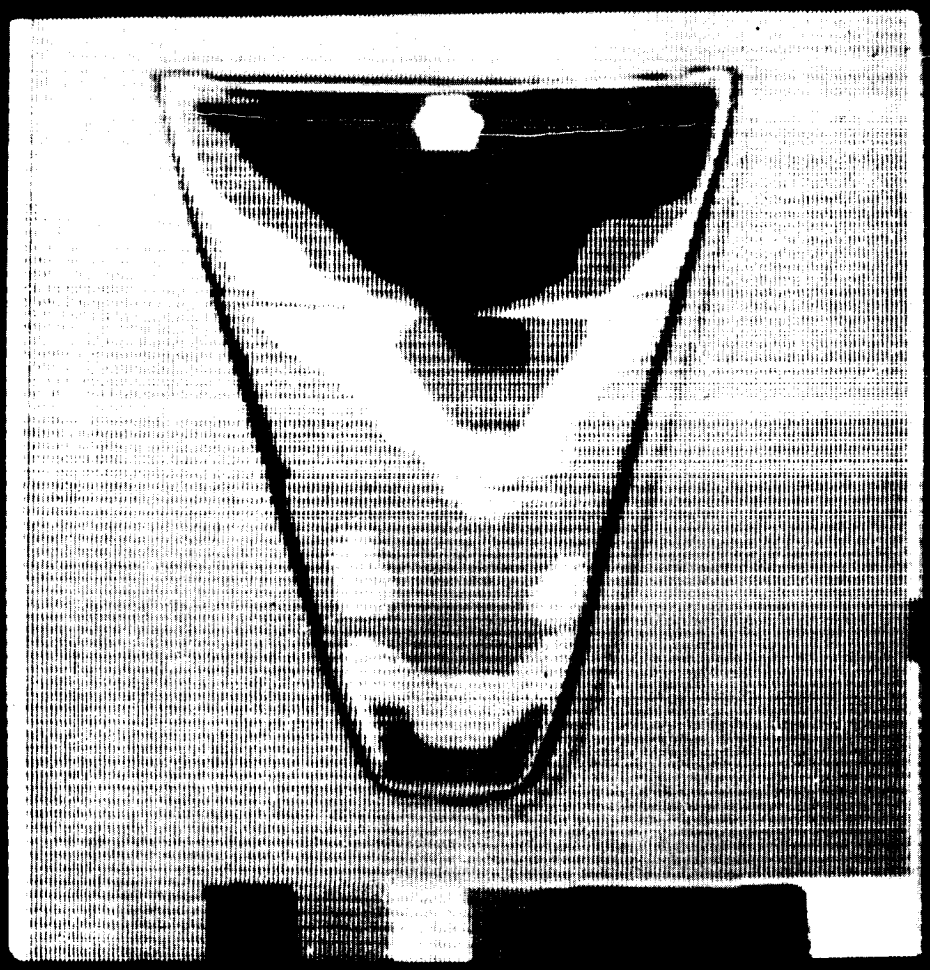

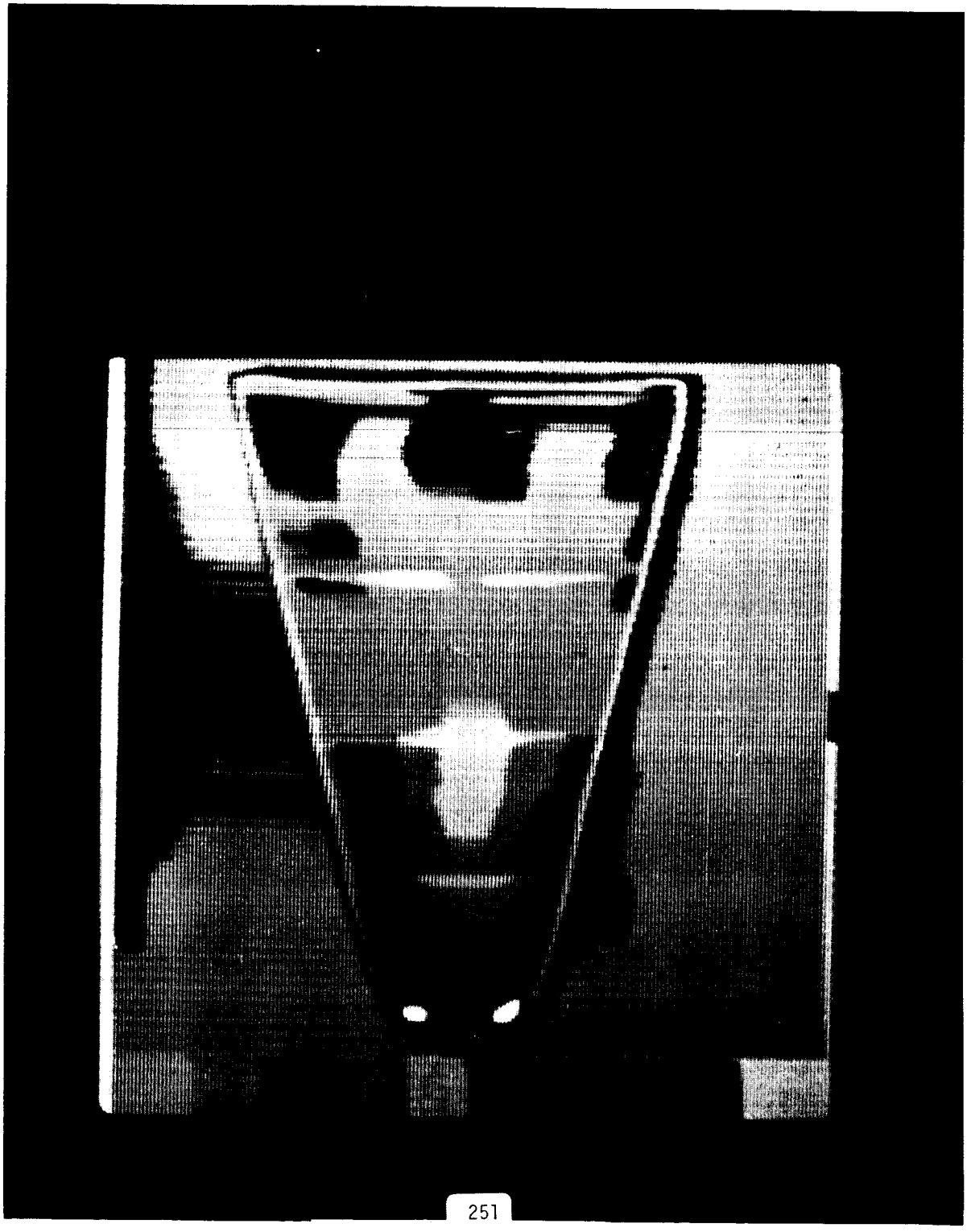

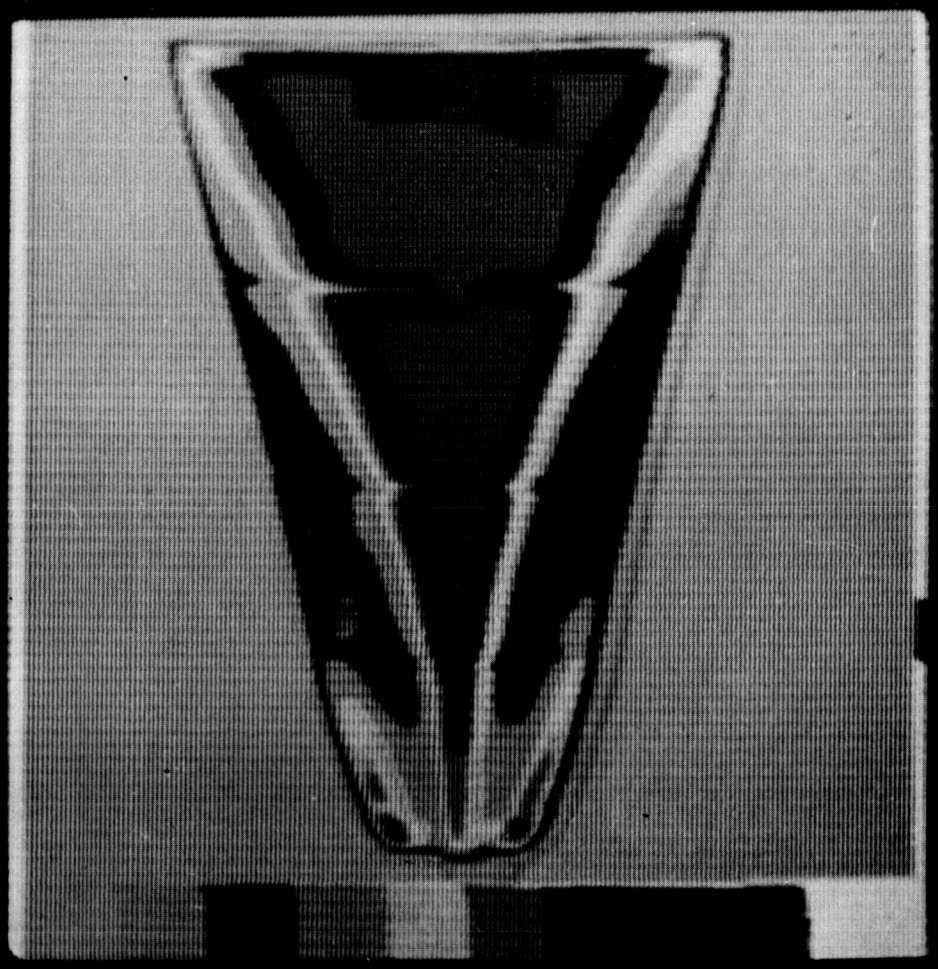

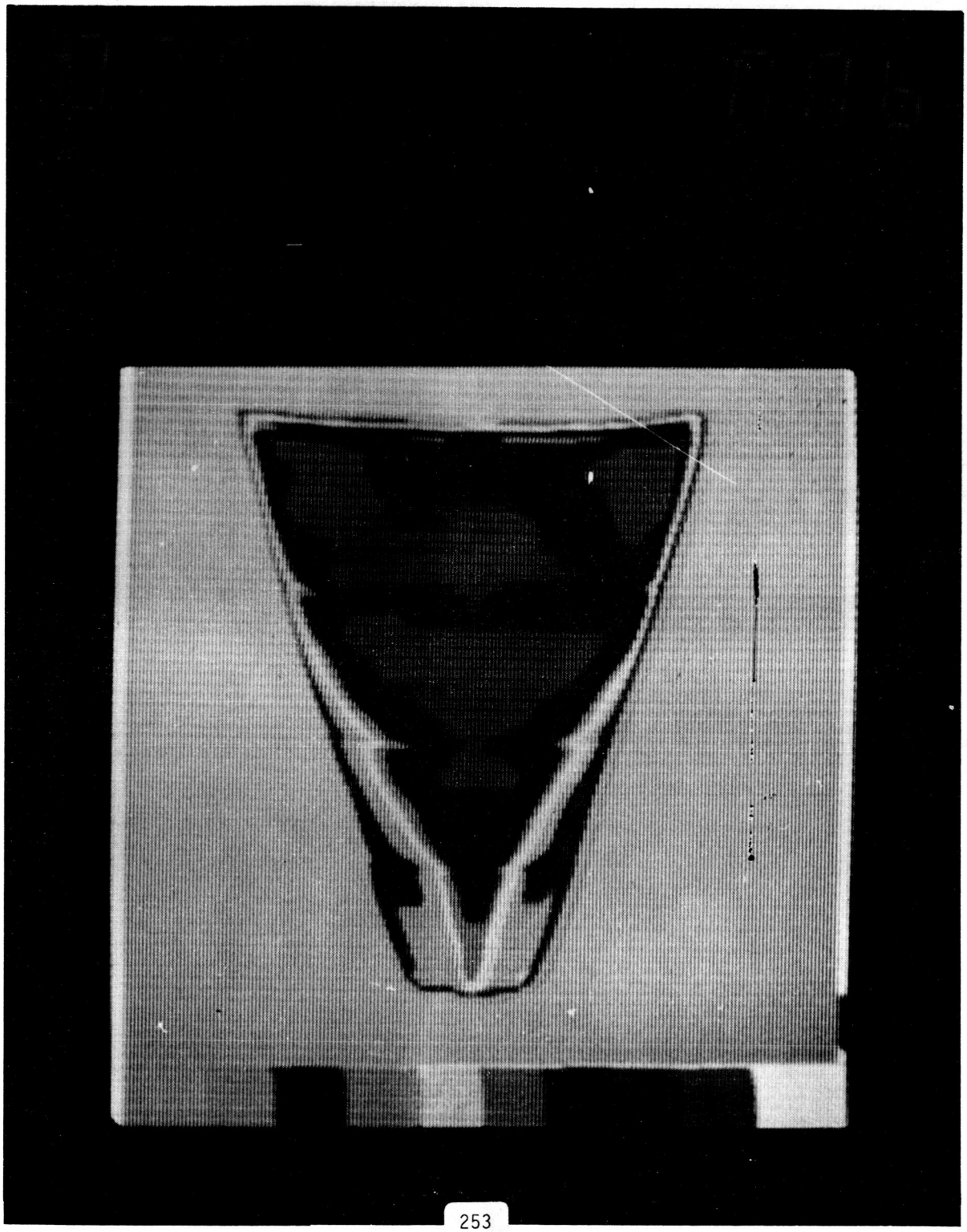

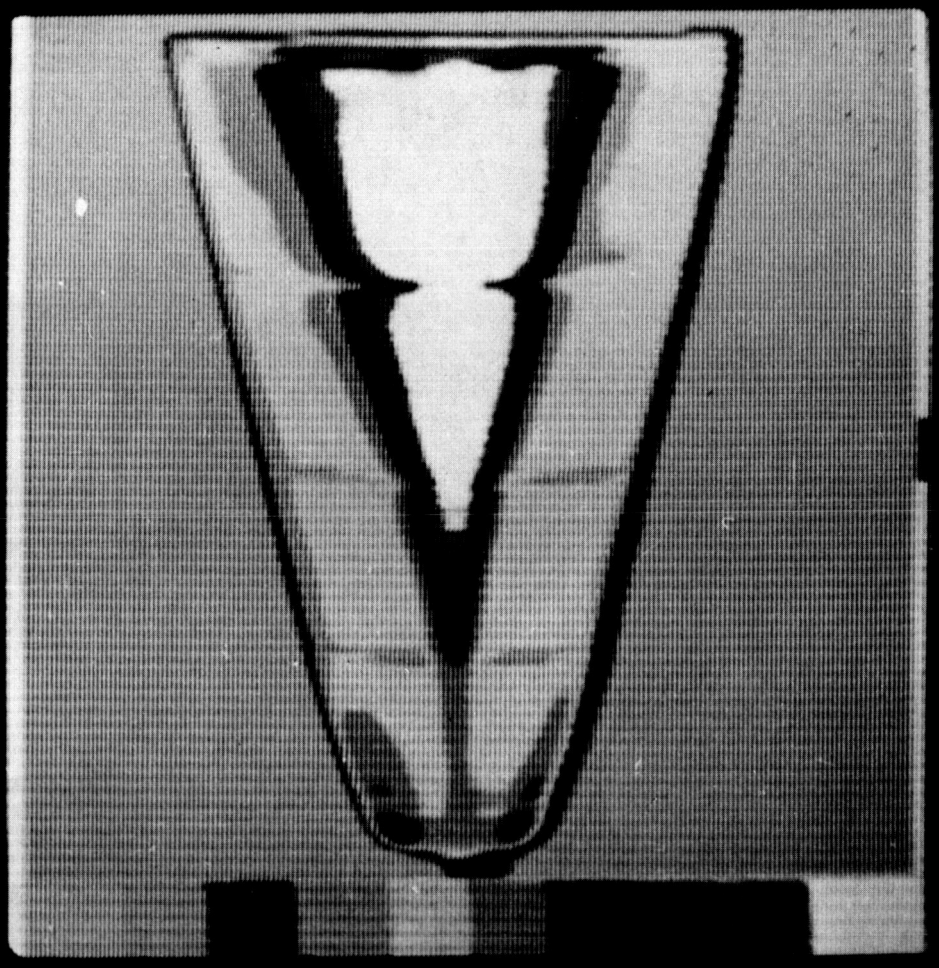

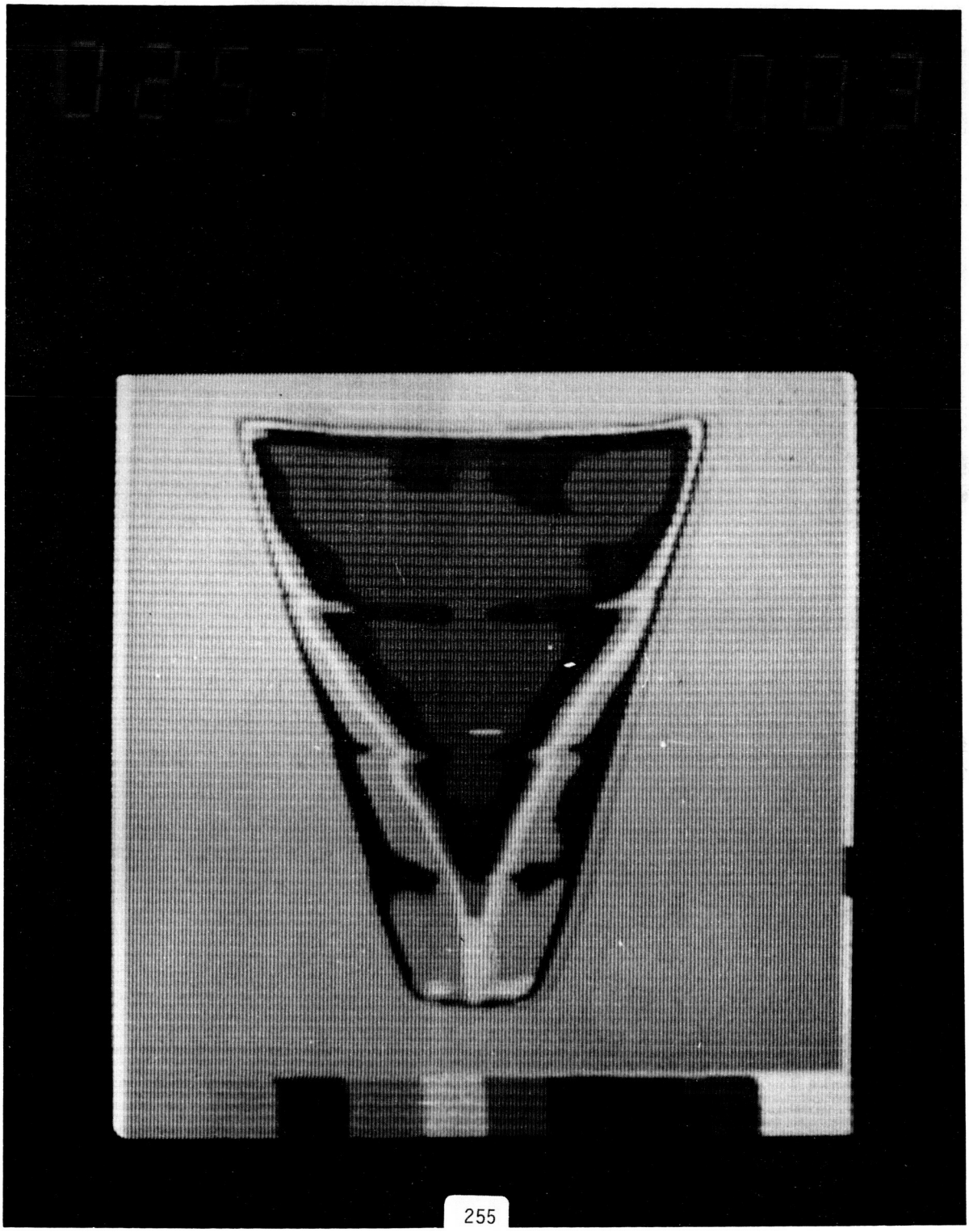

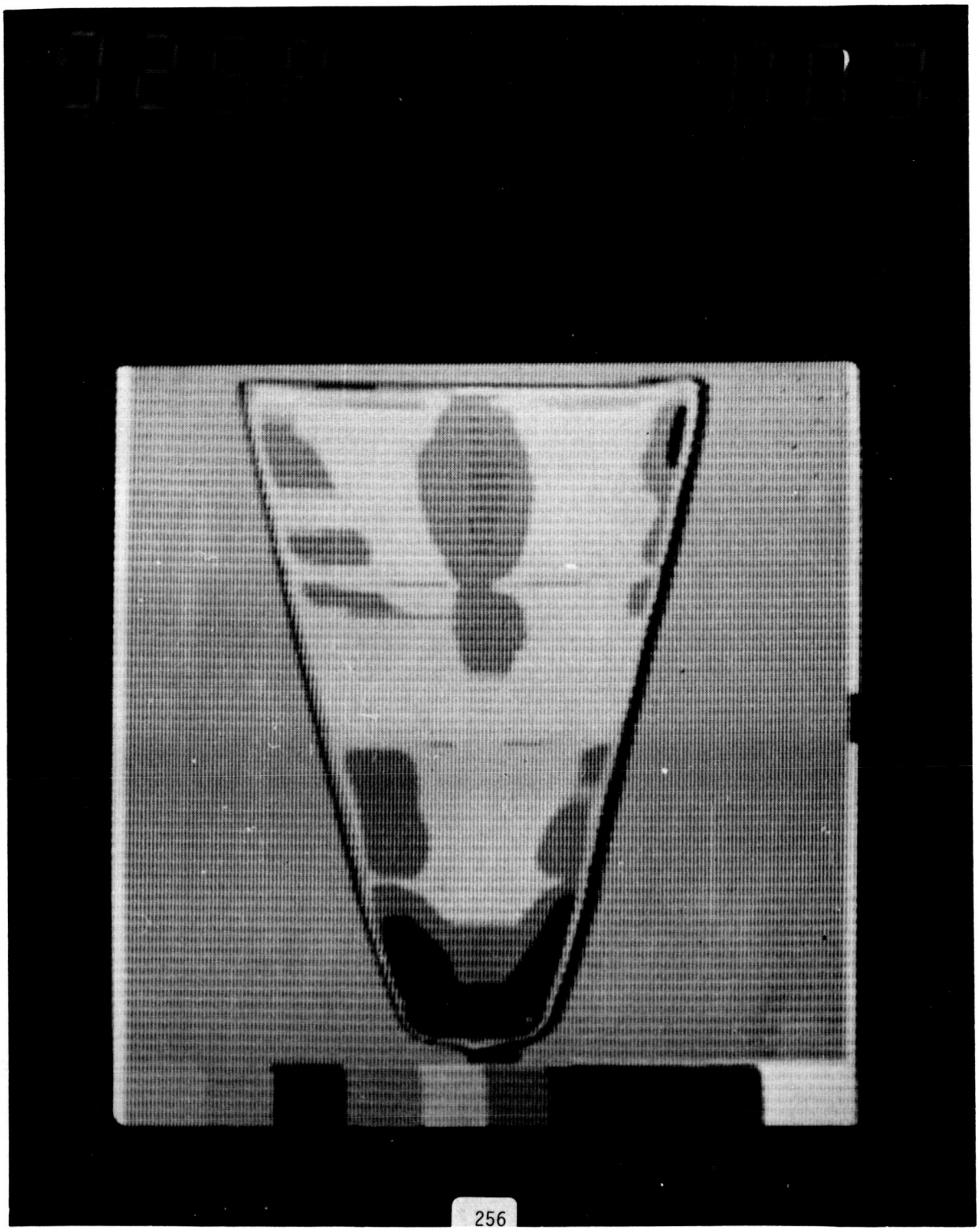

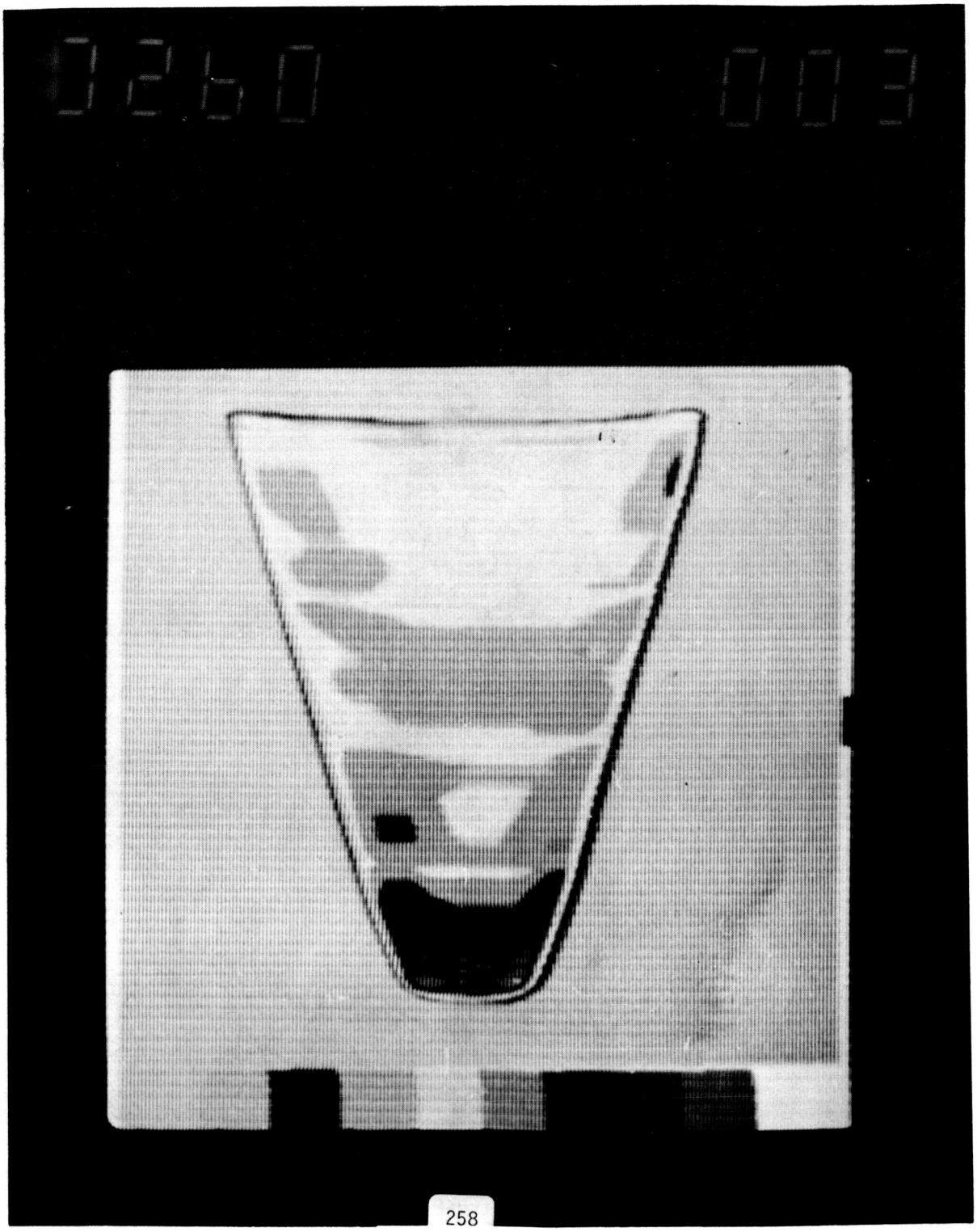
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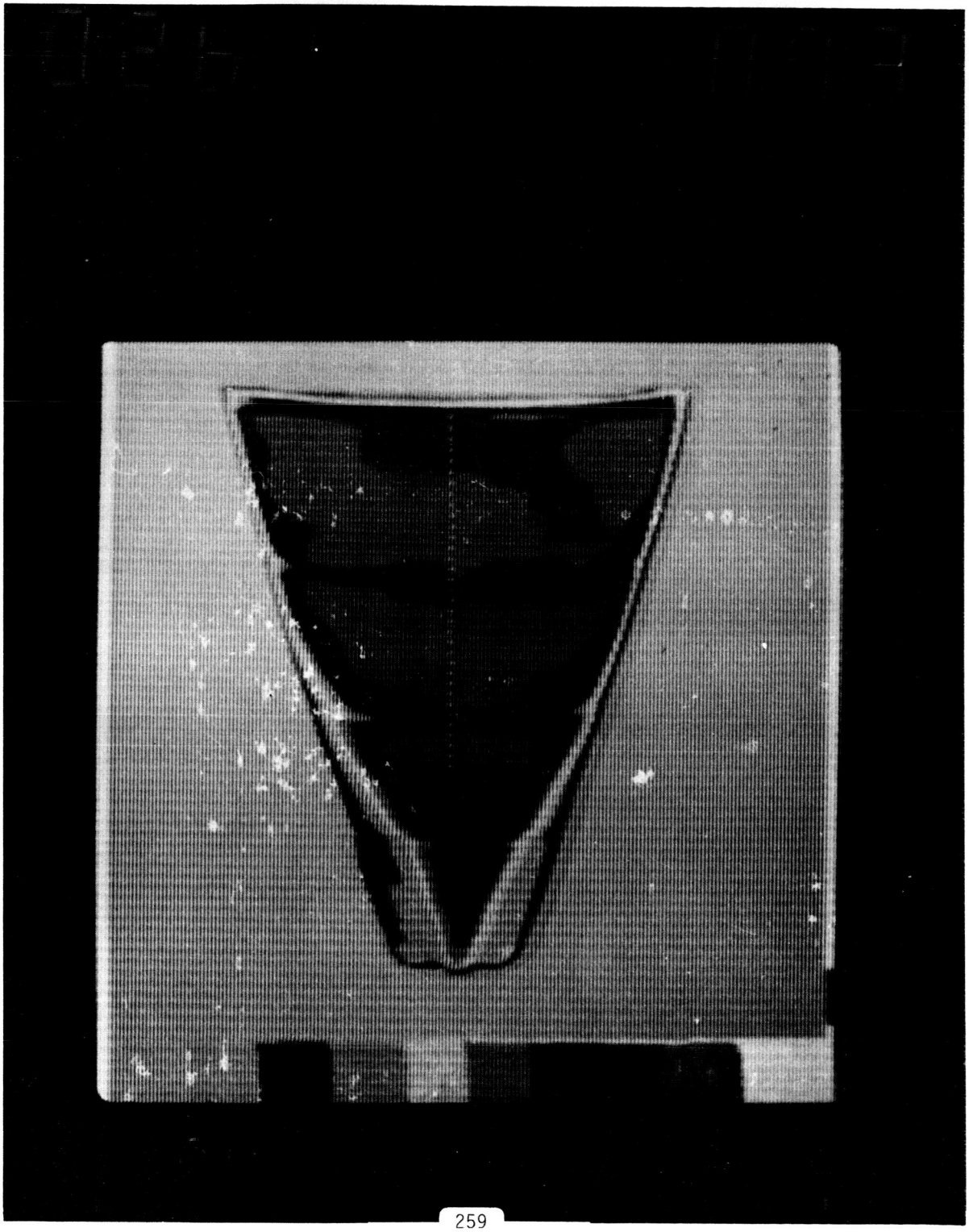

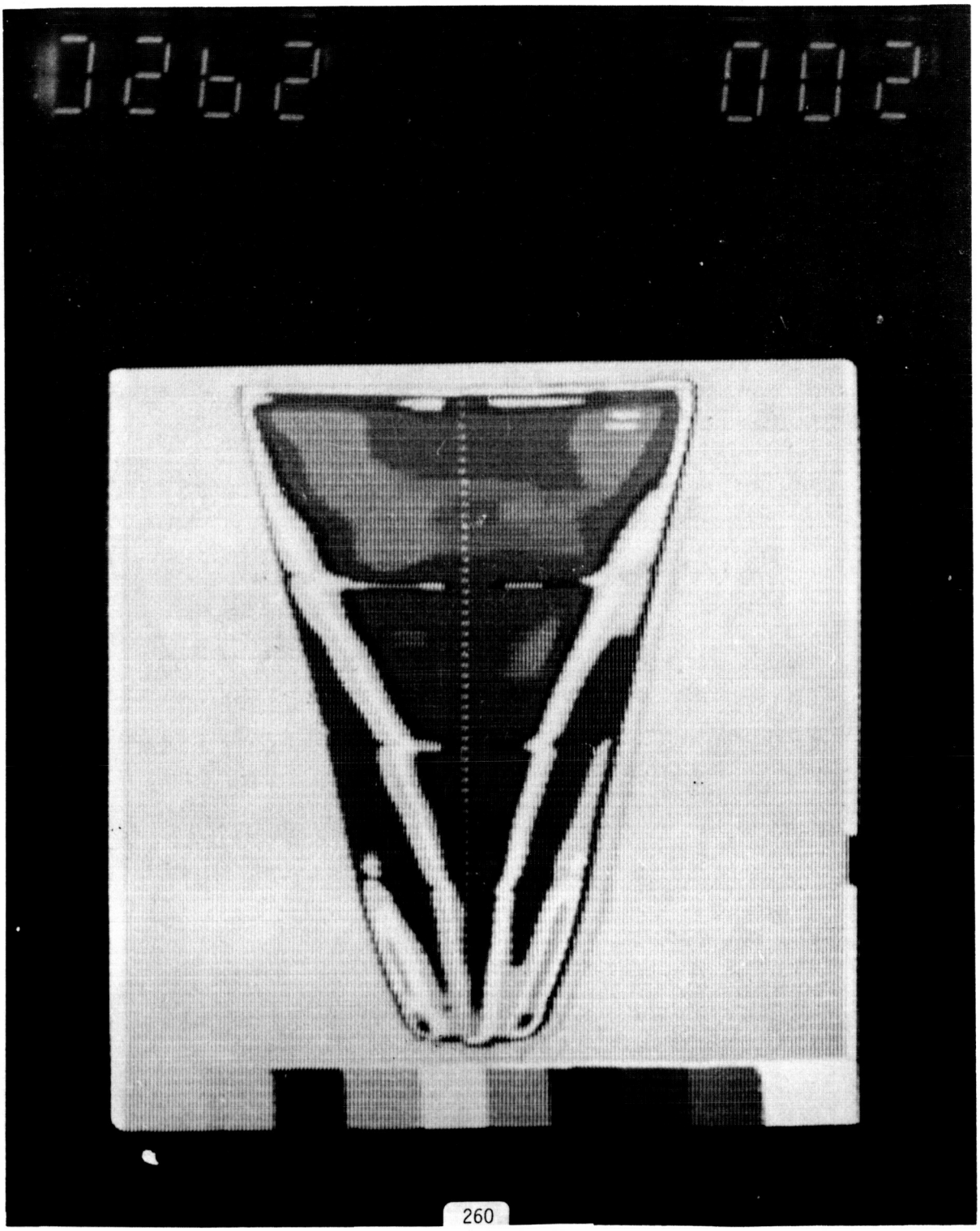
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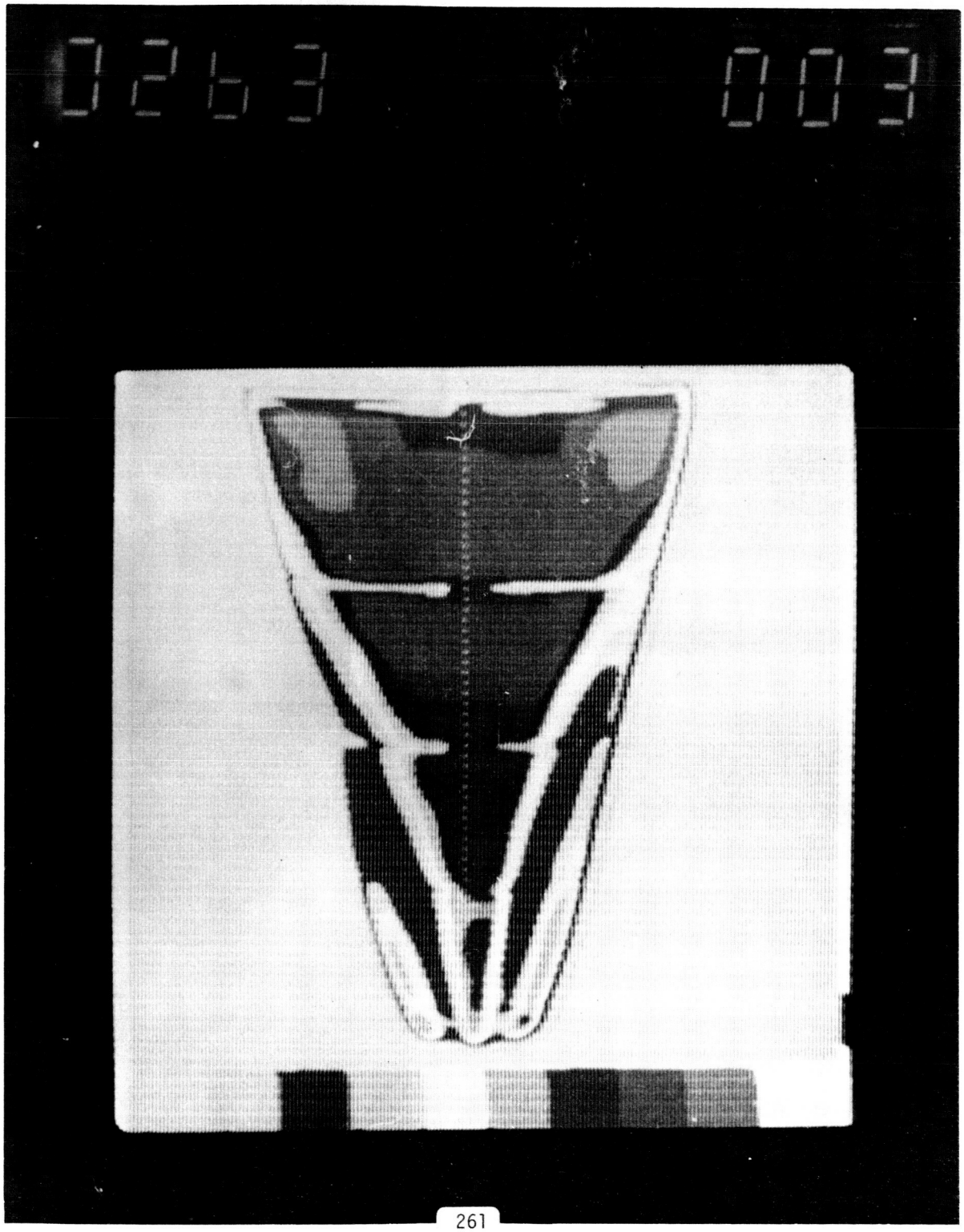
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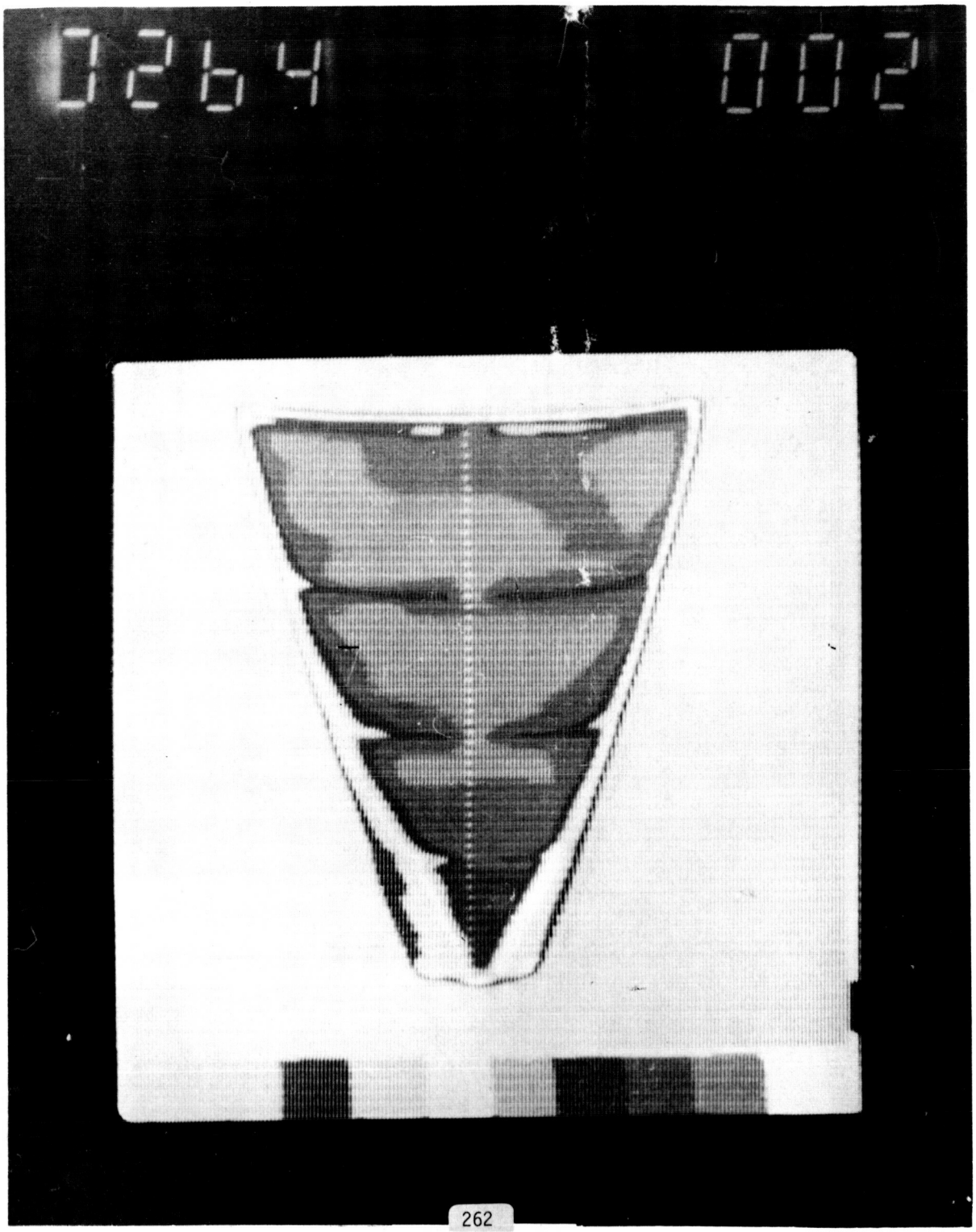
003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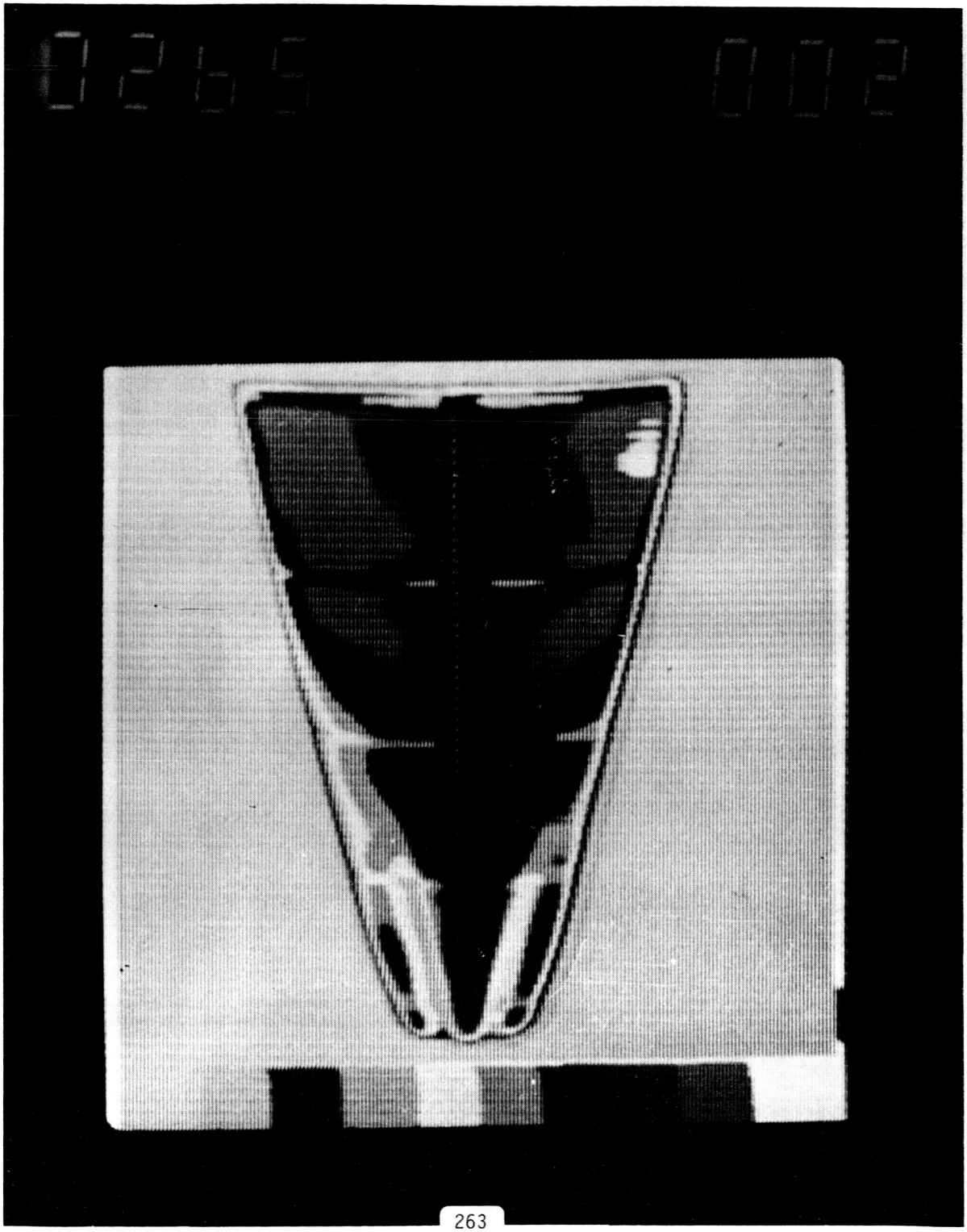
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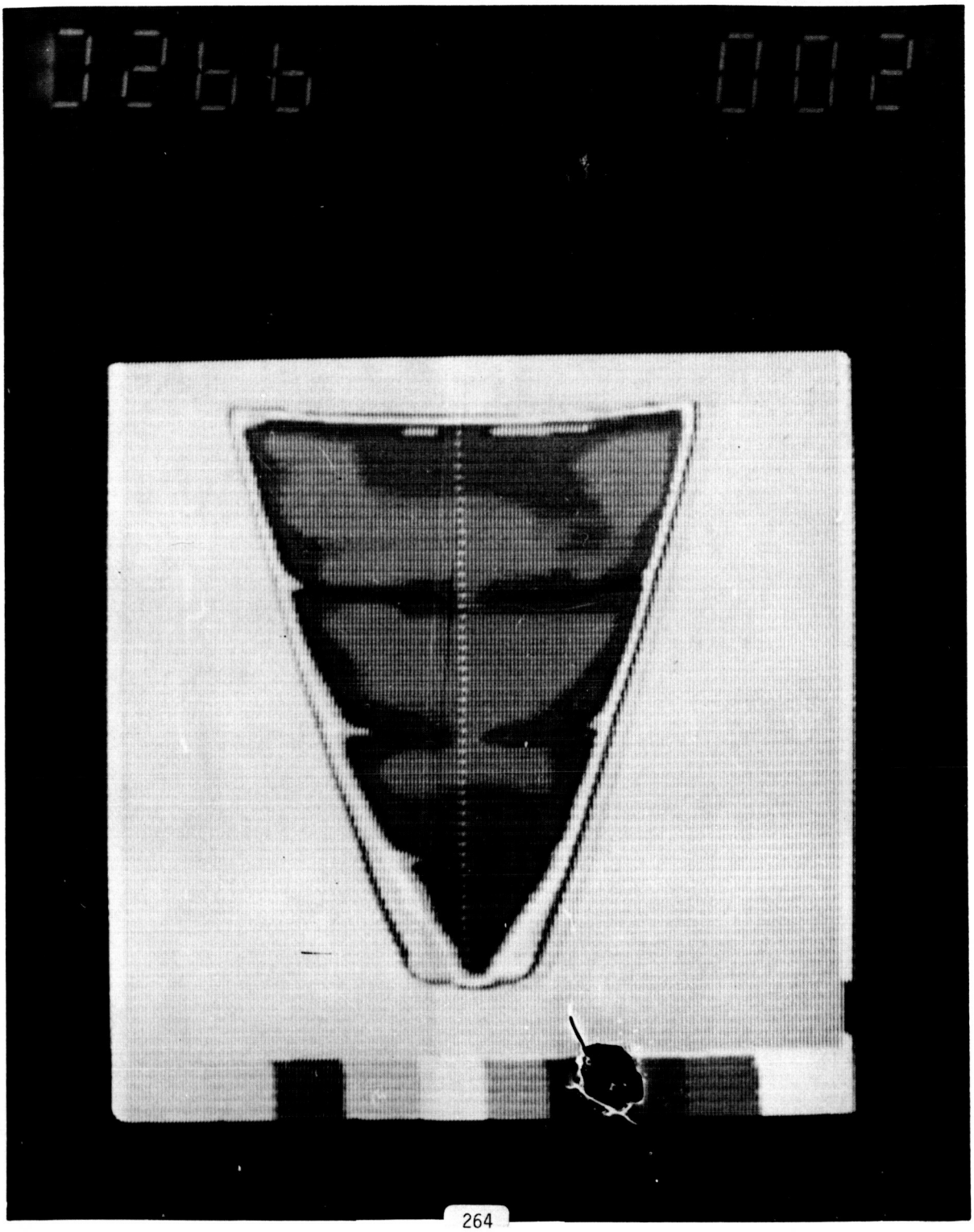
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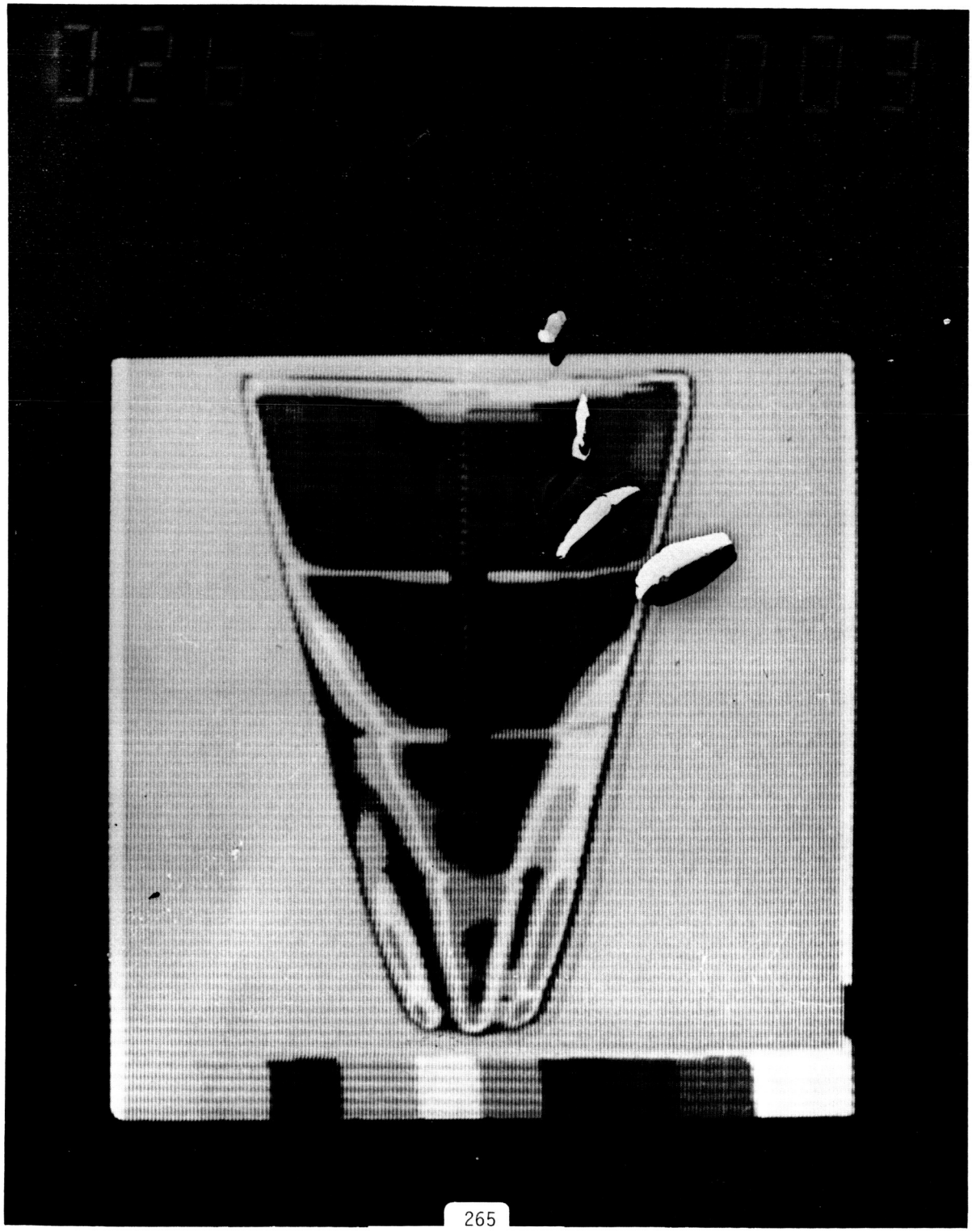

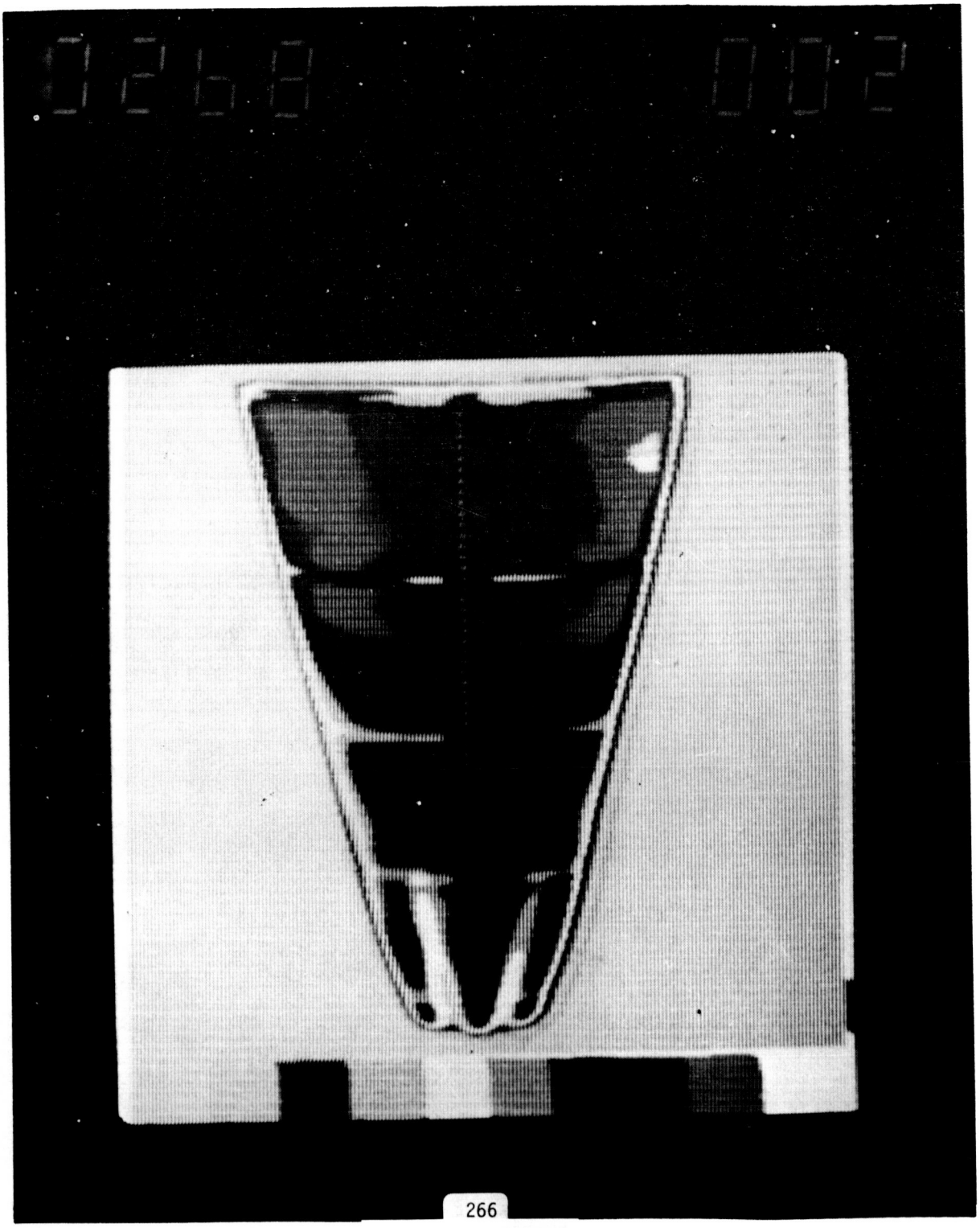
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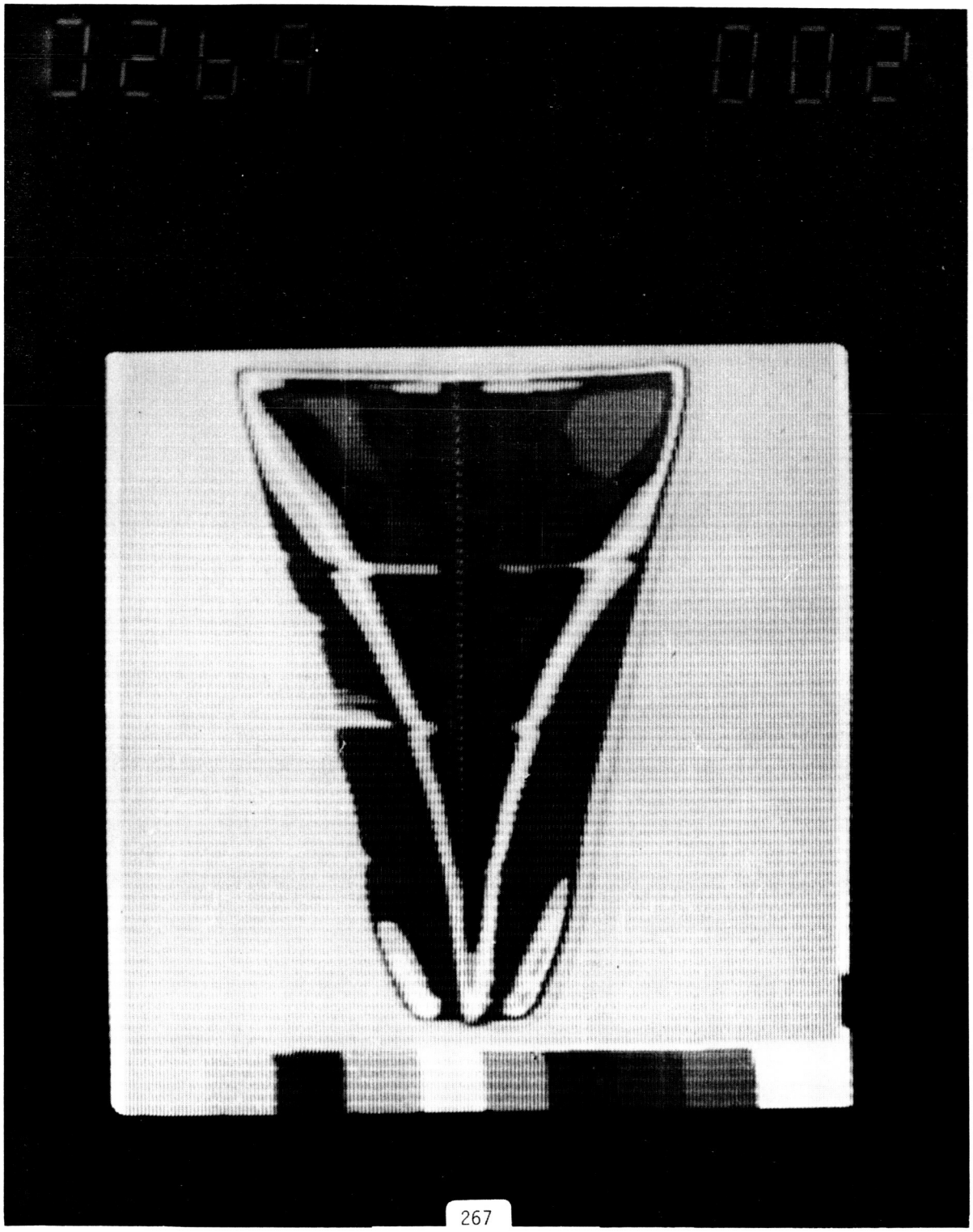
0269
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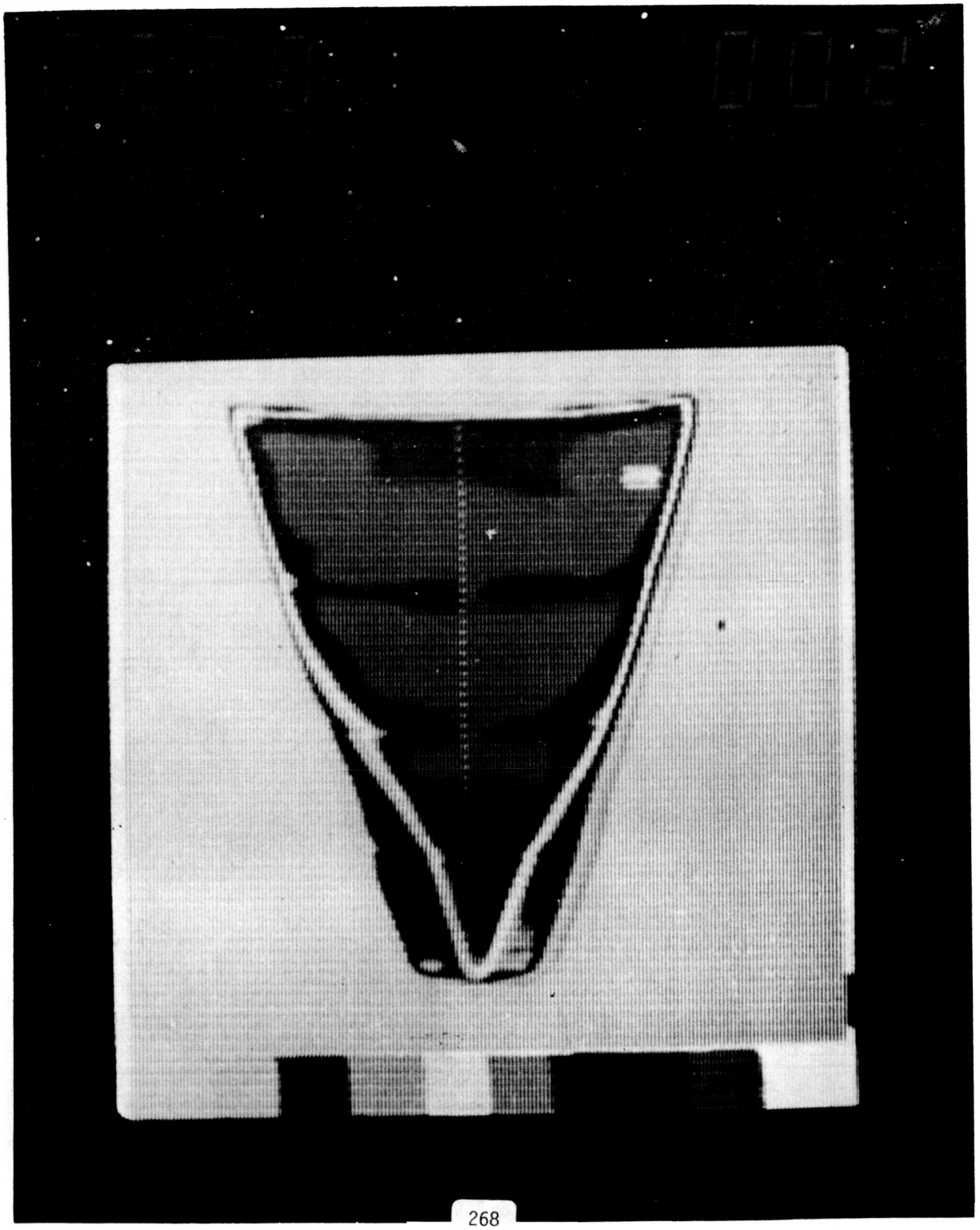

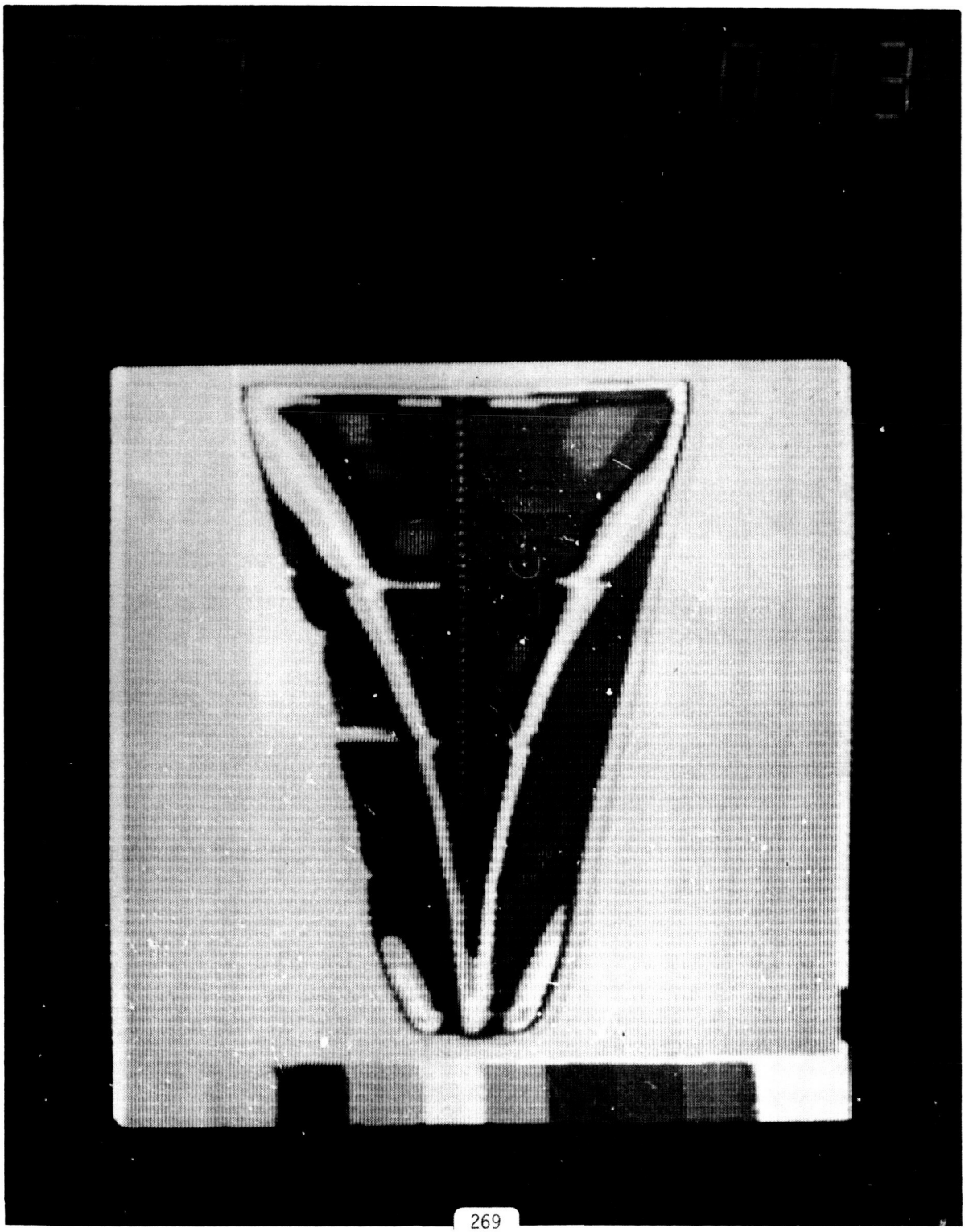

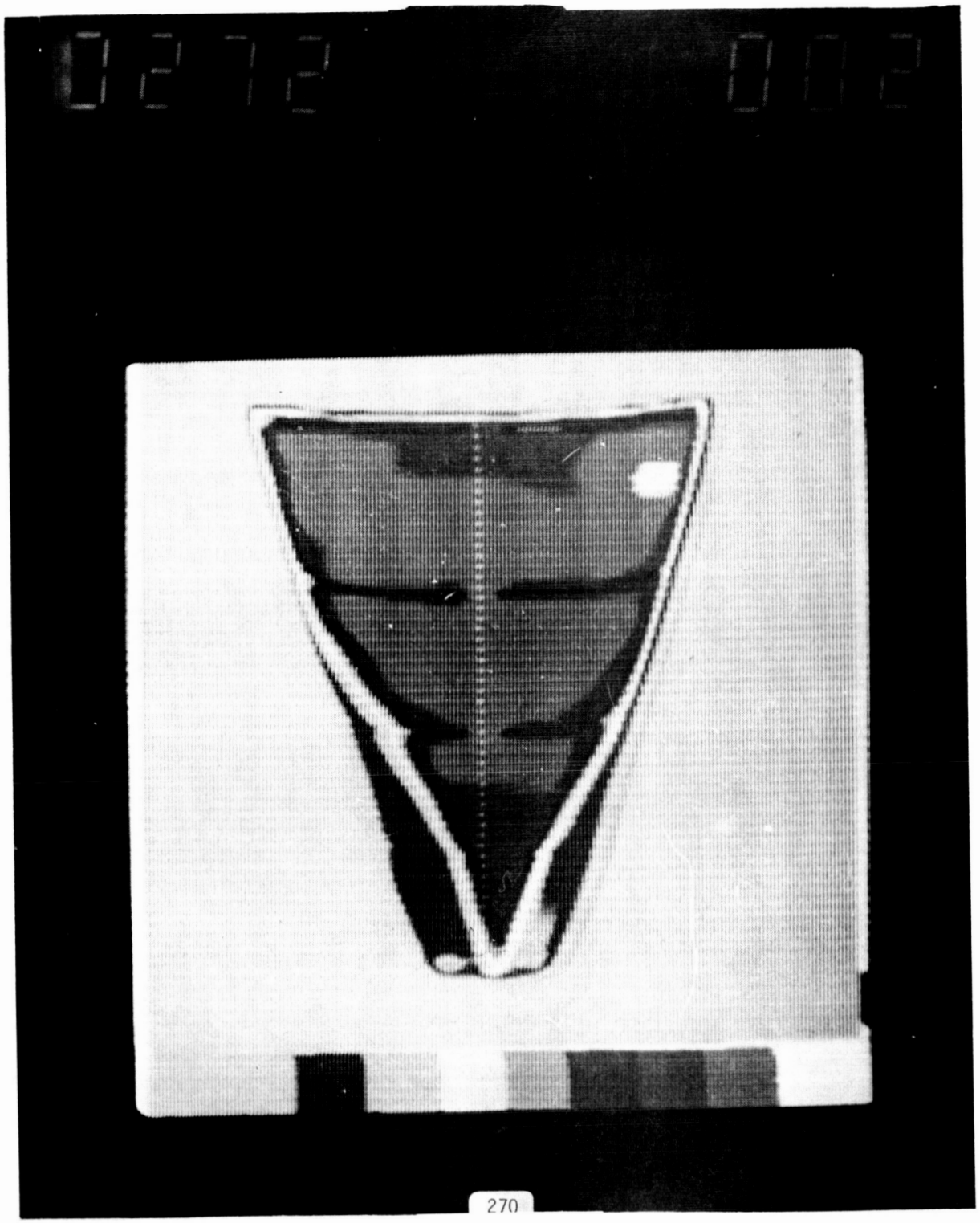
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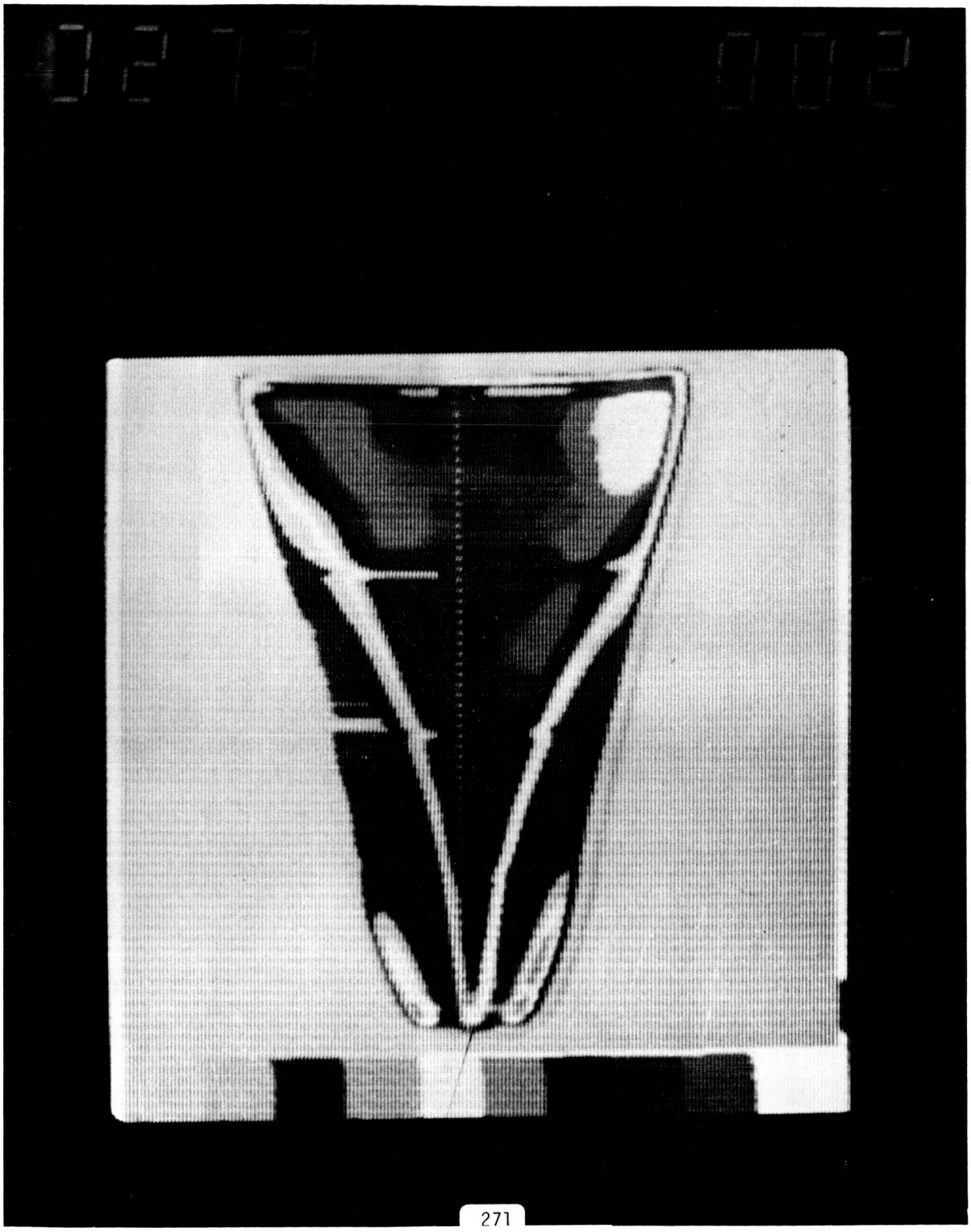

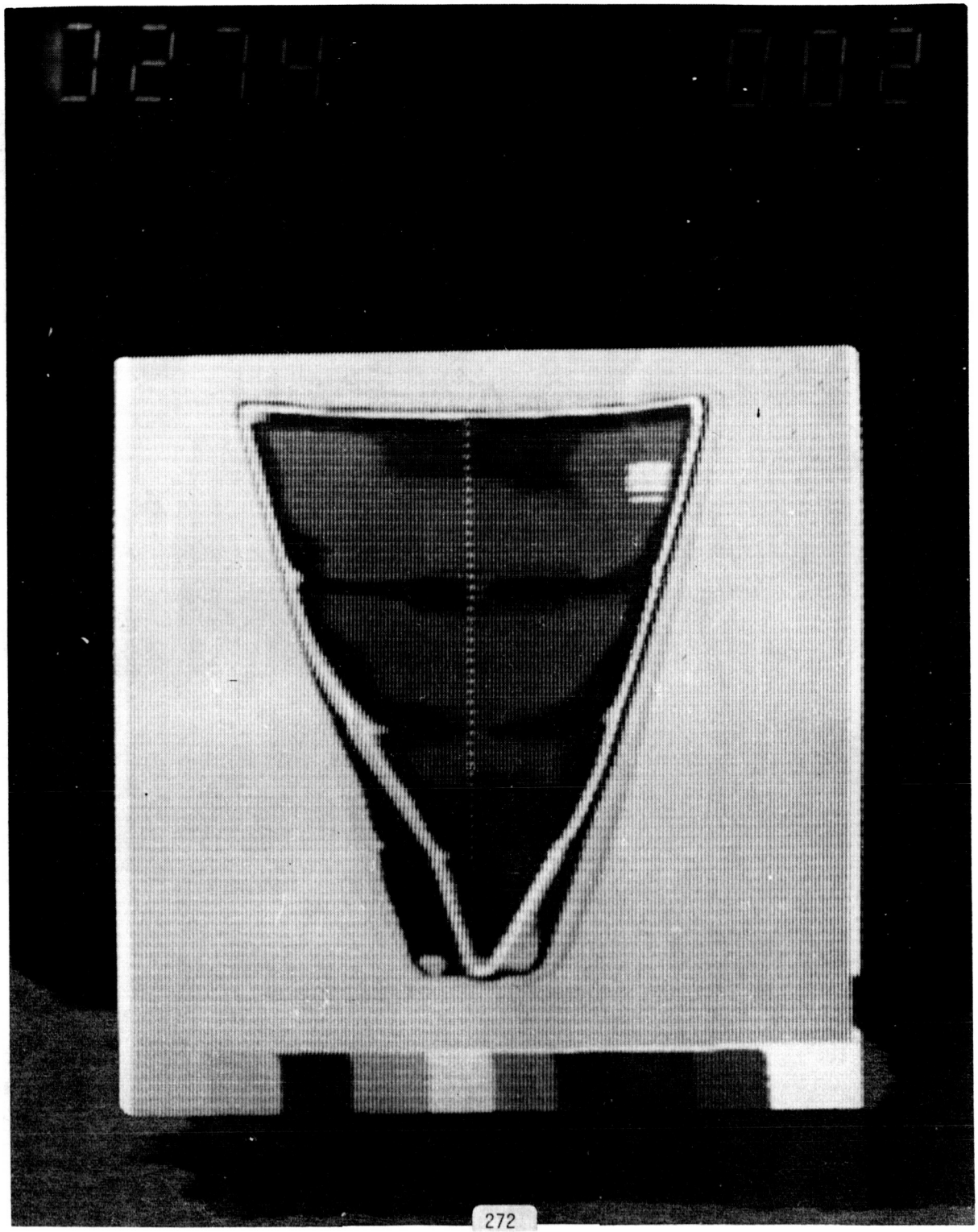

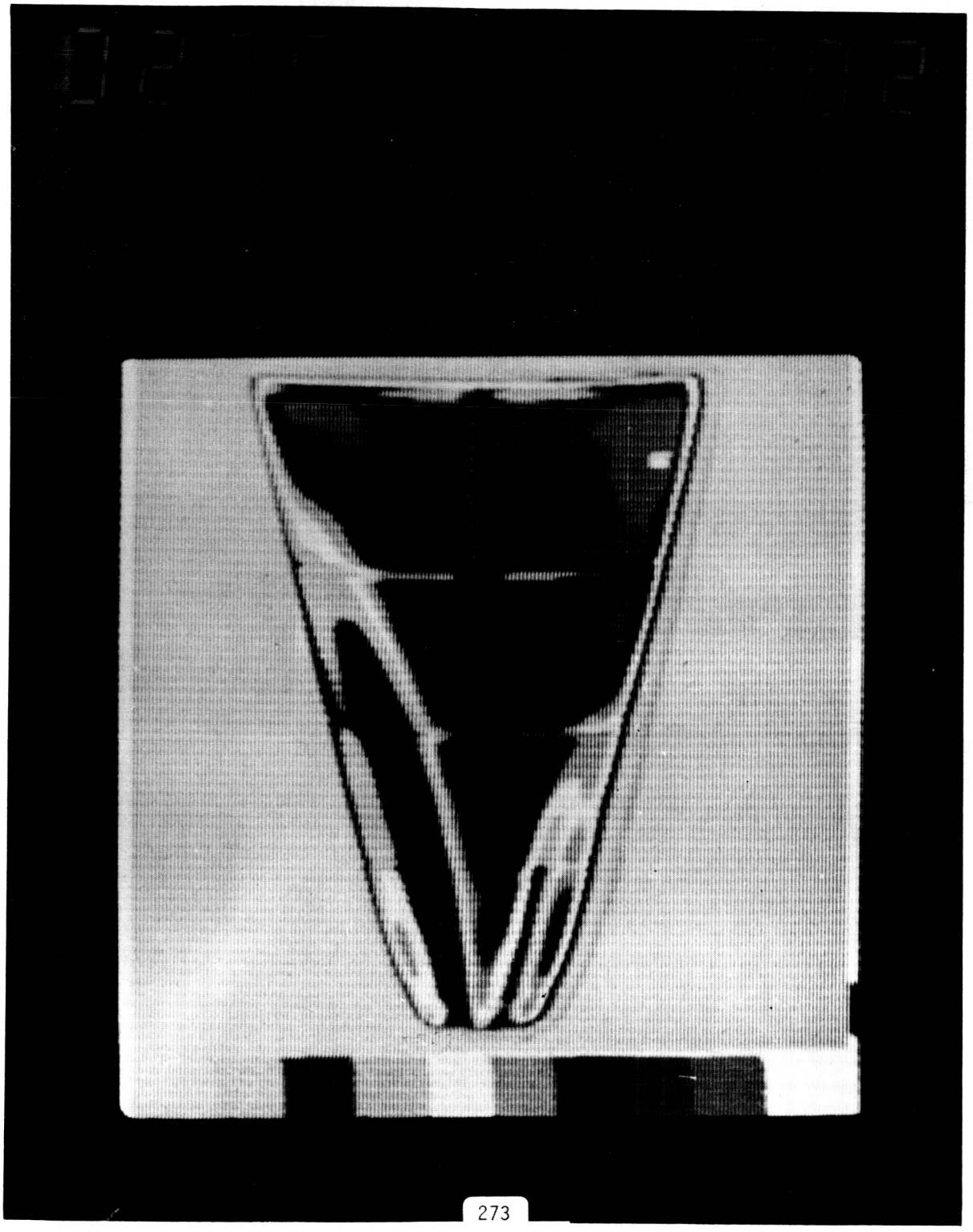

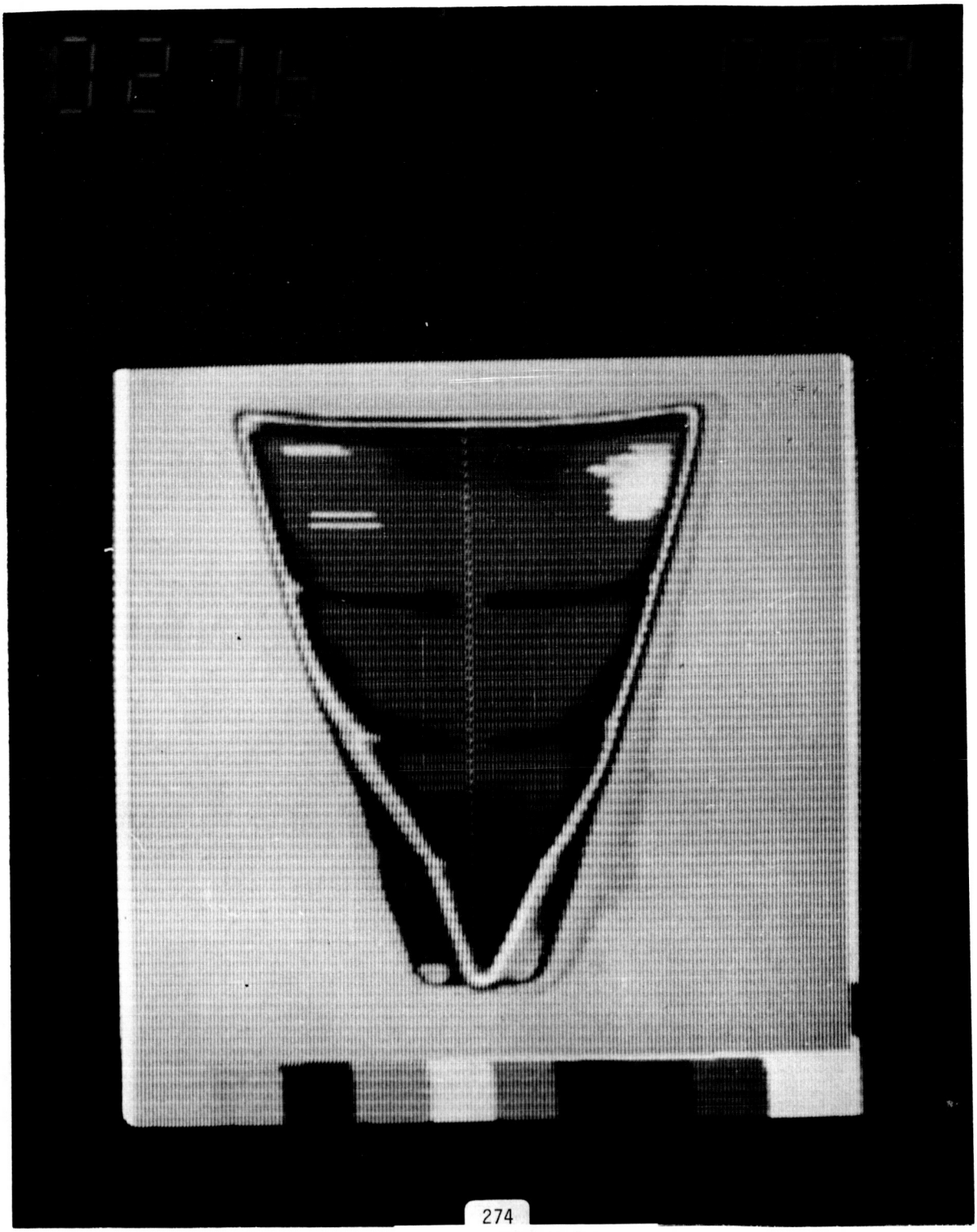

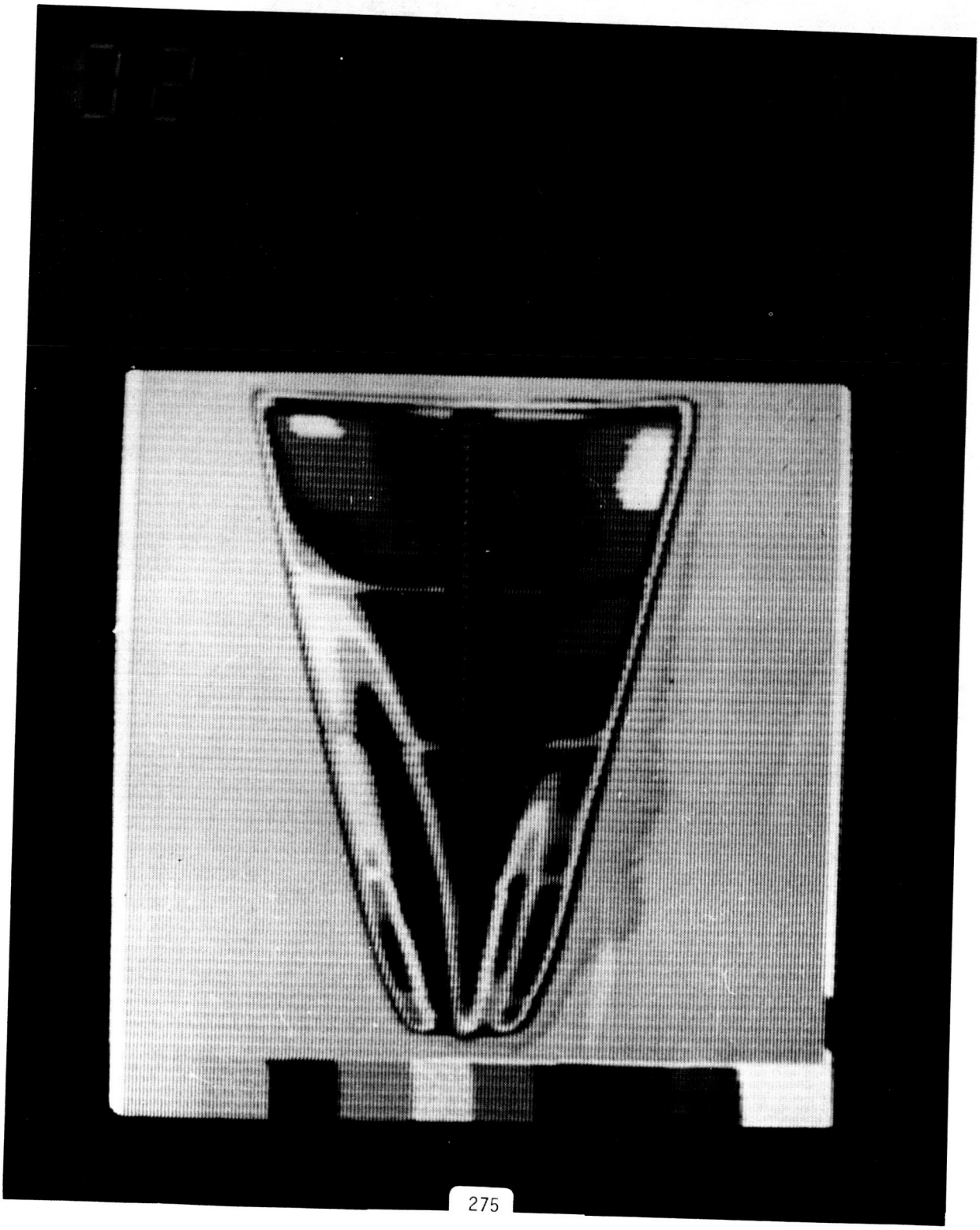

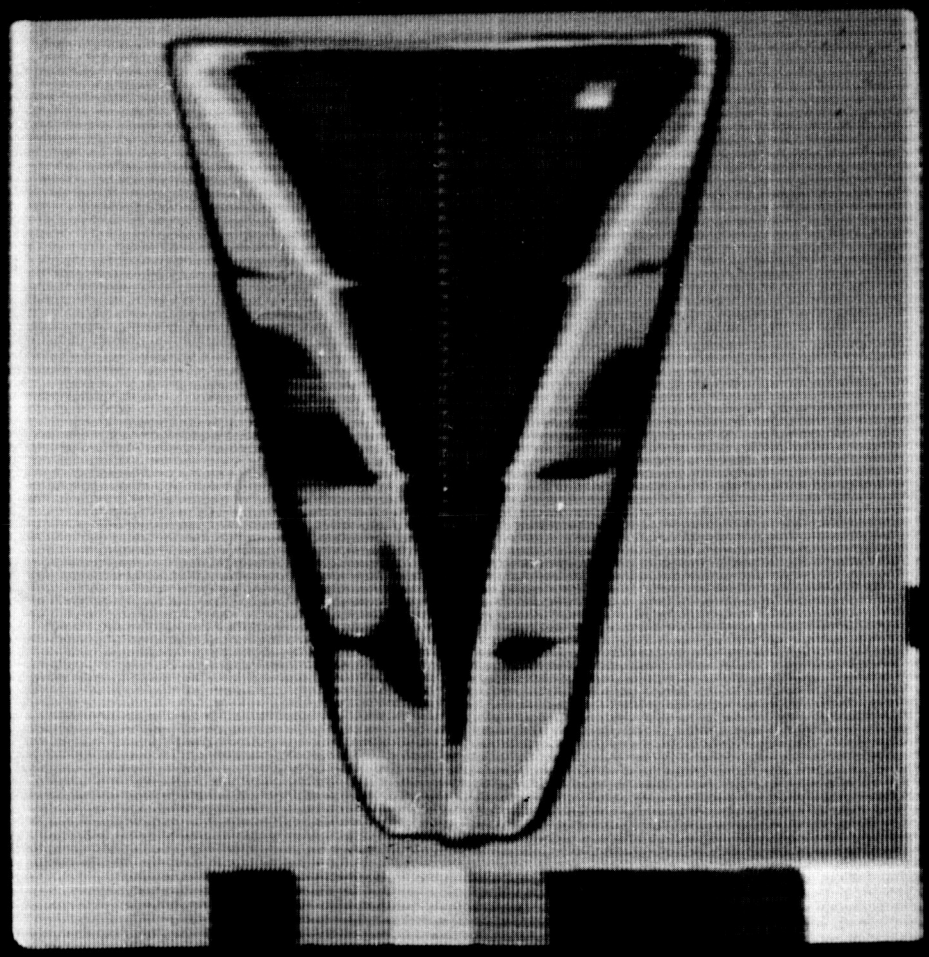

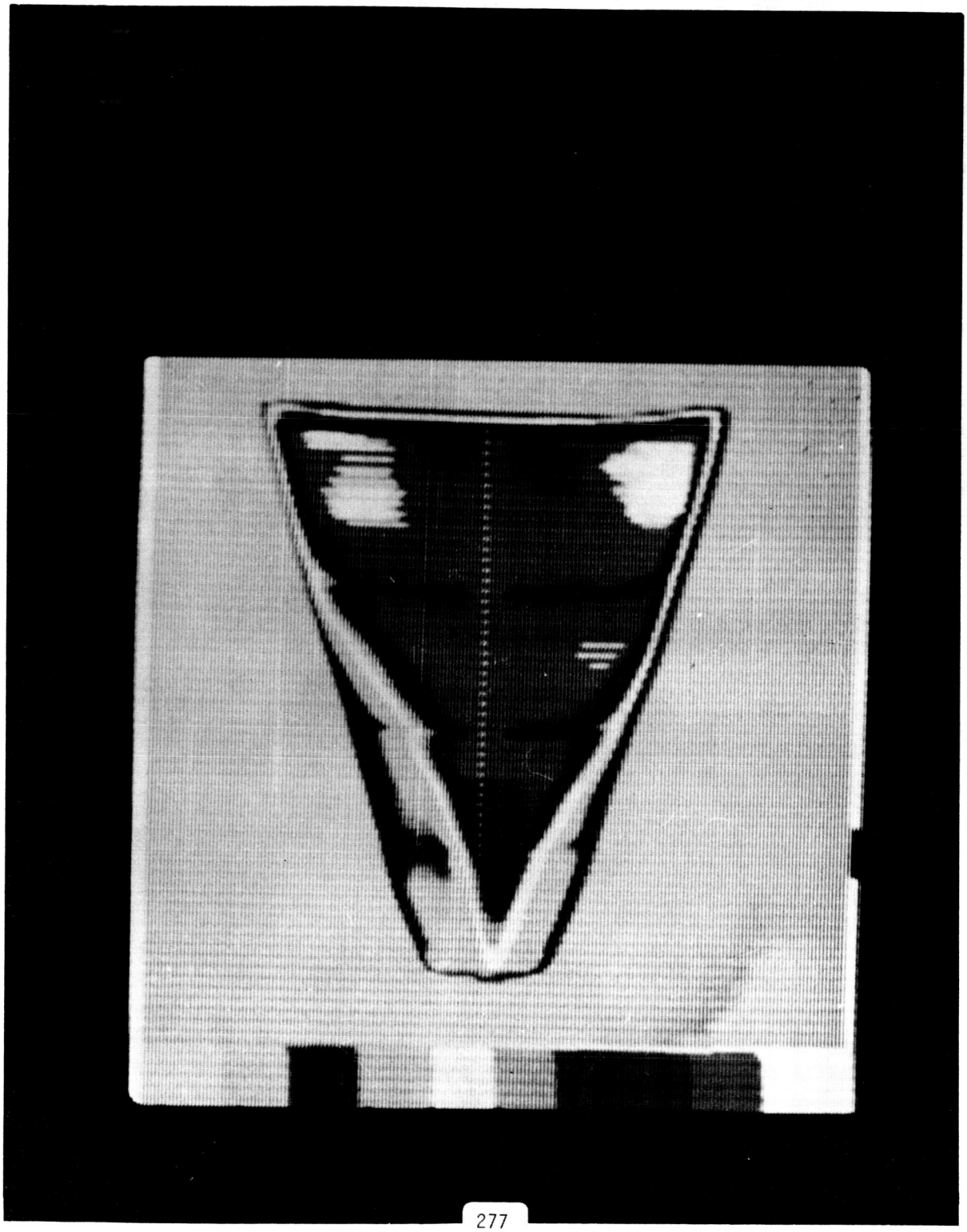

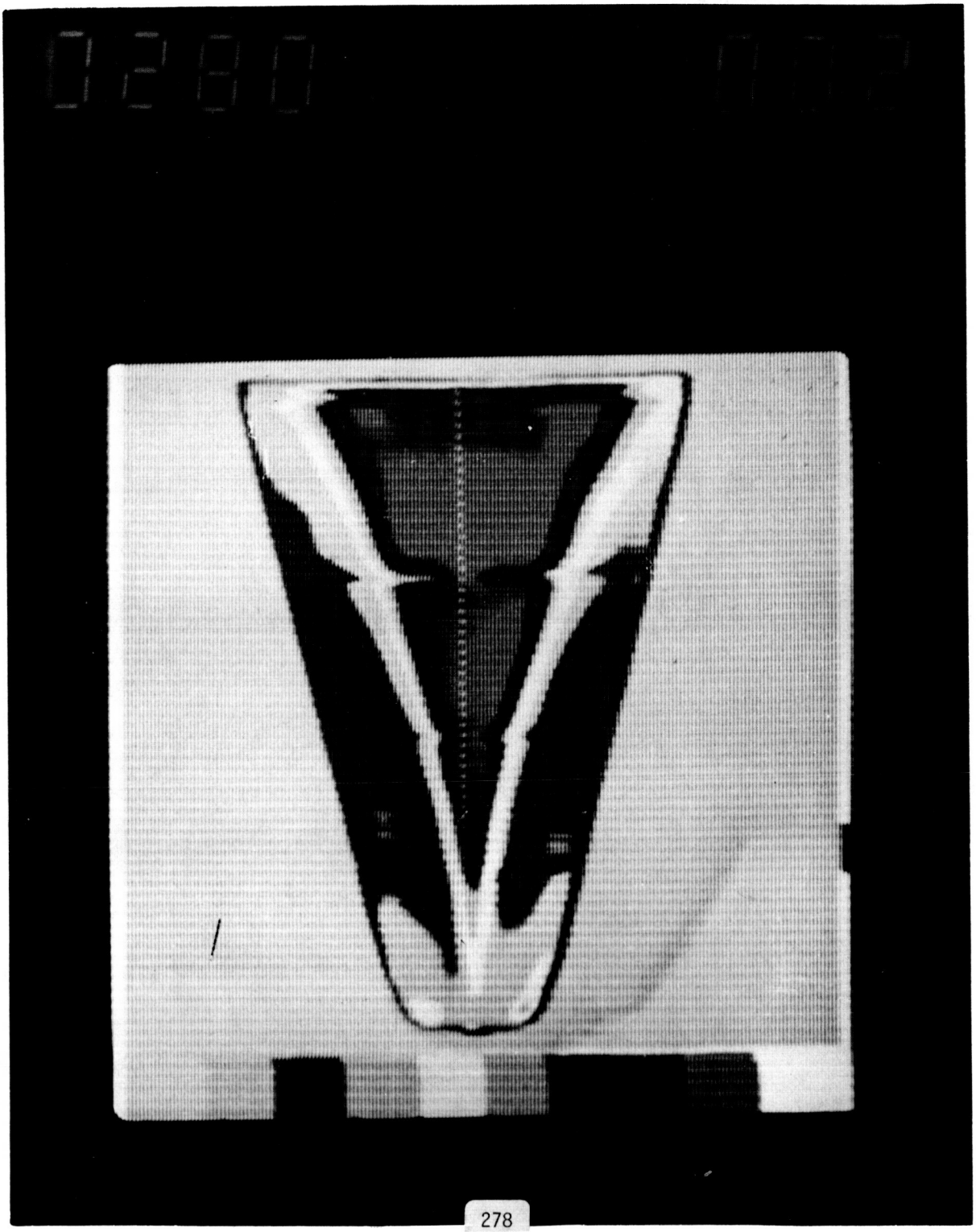

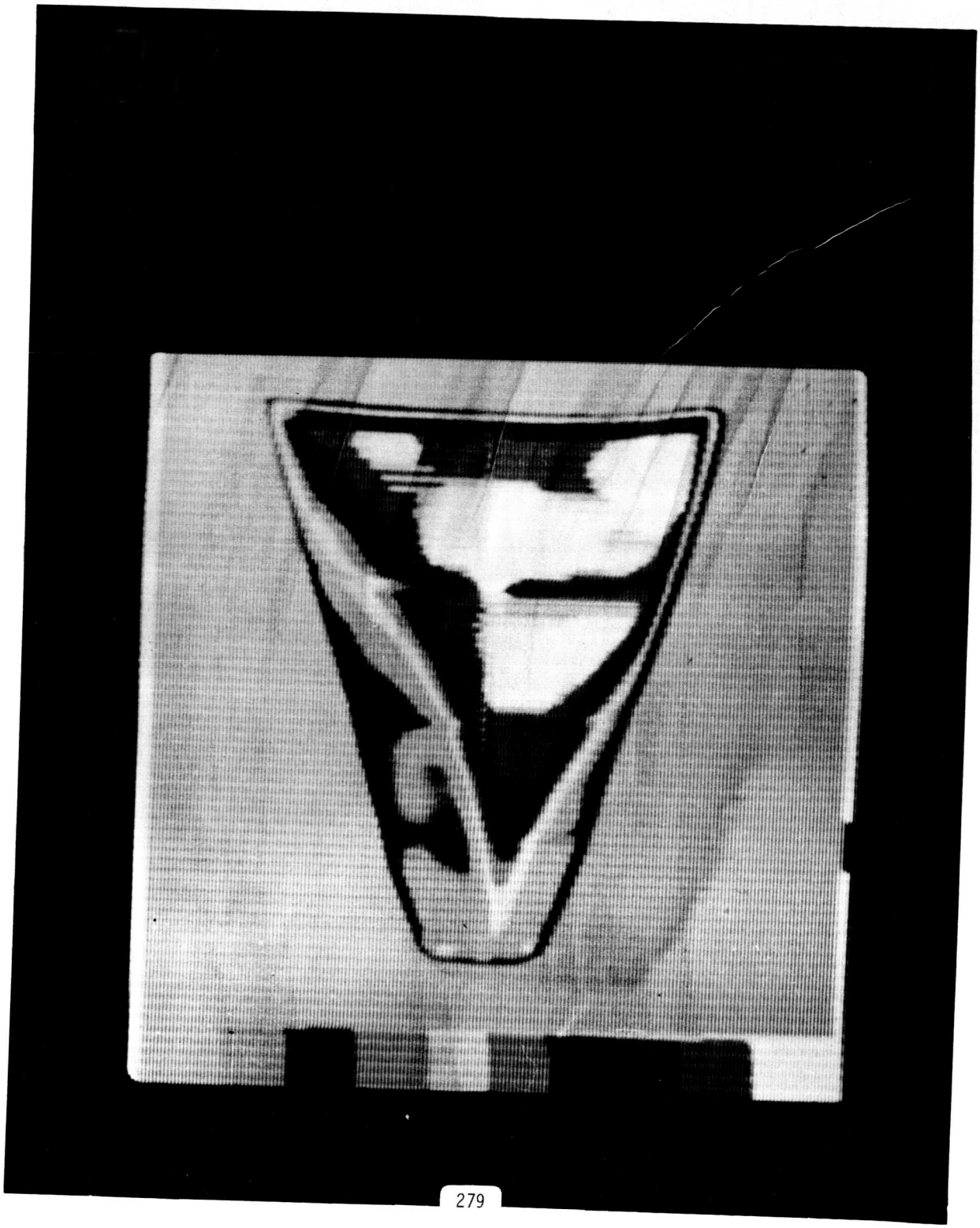

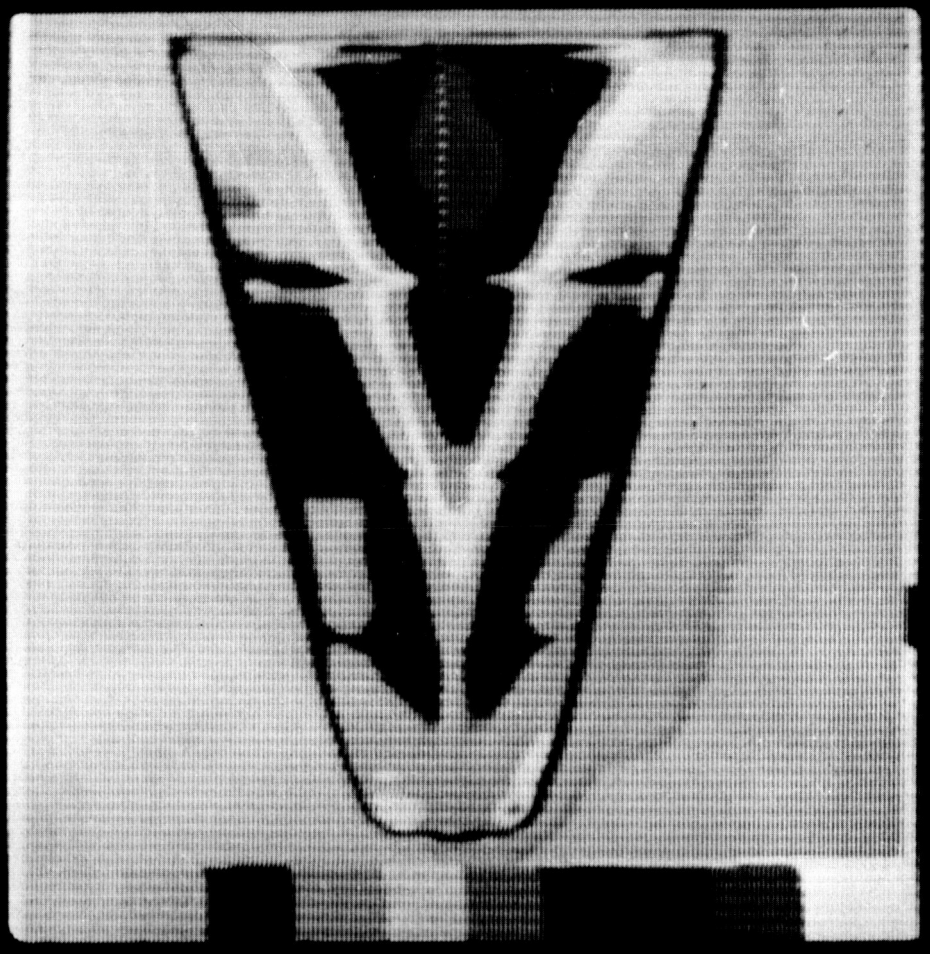

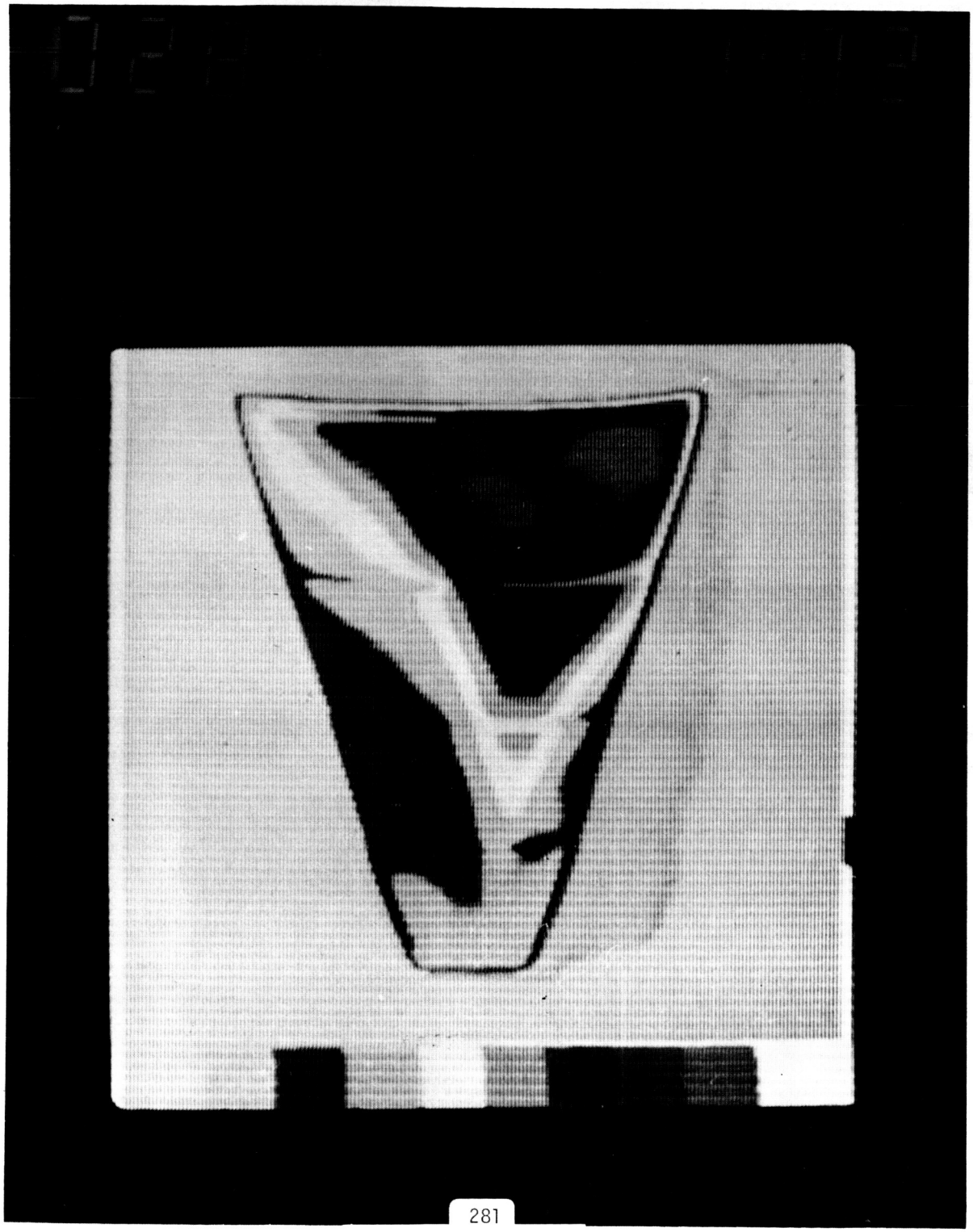

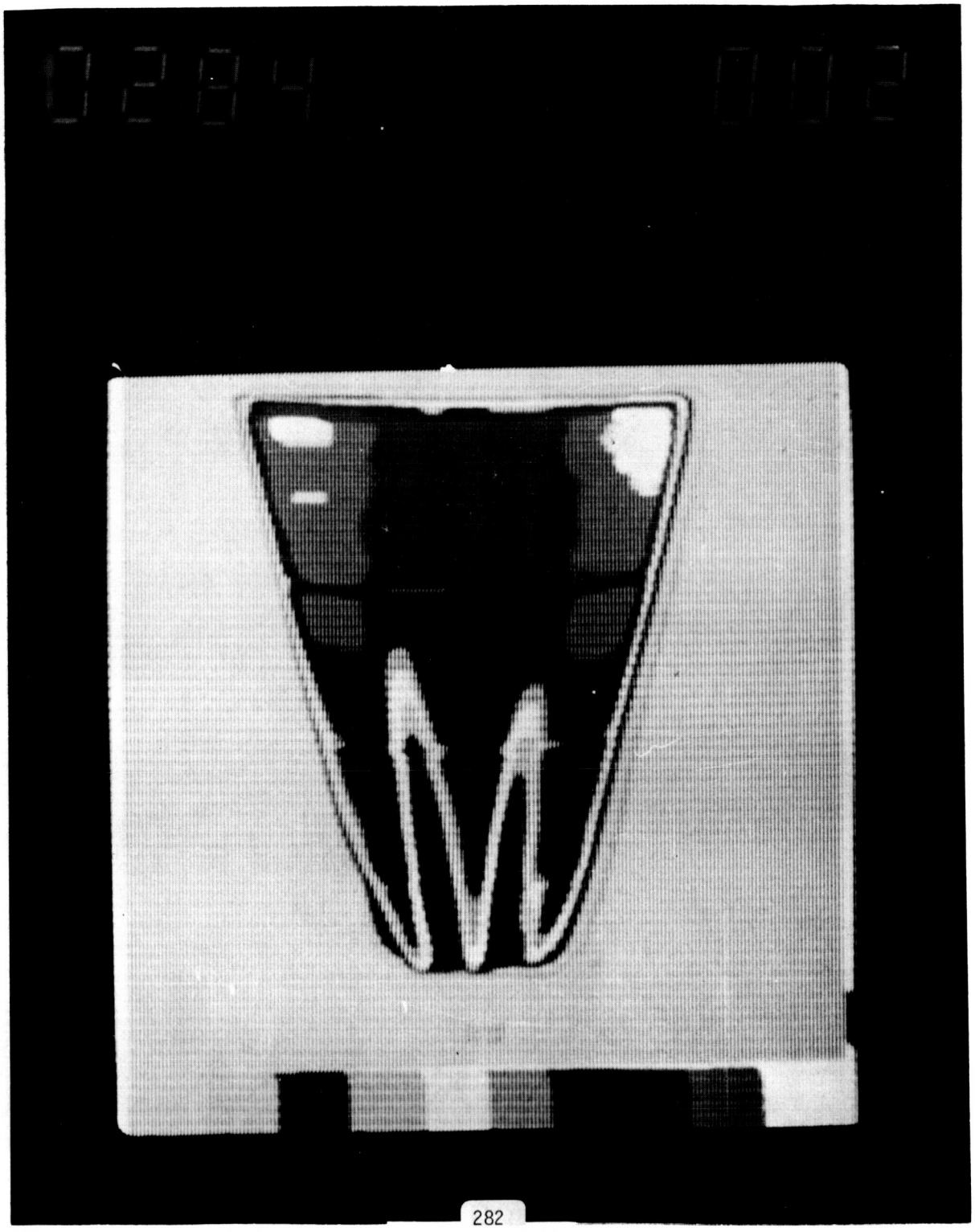

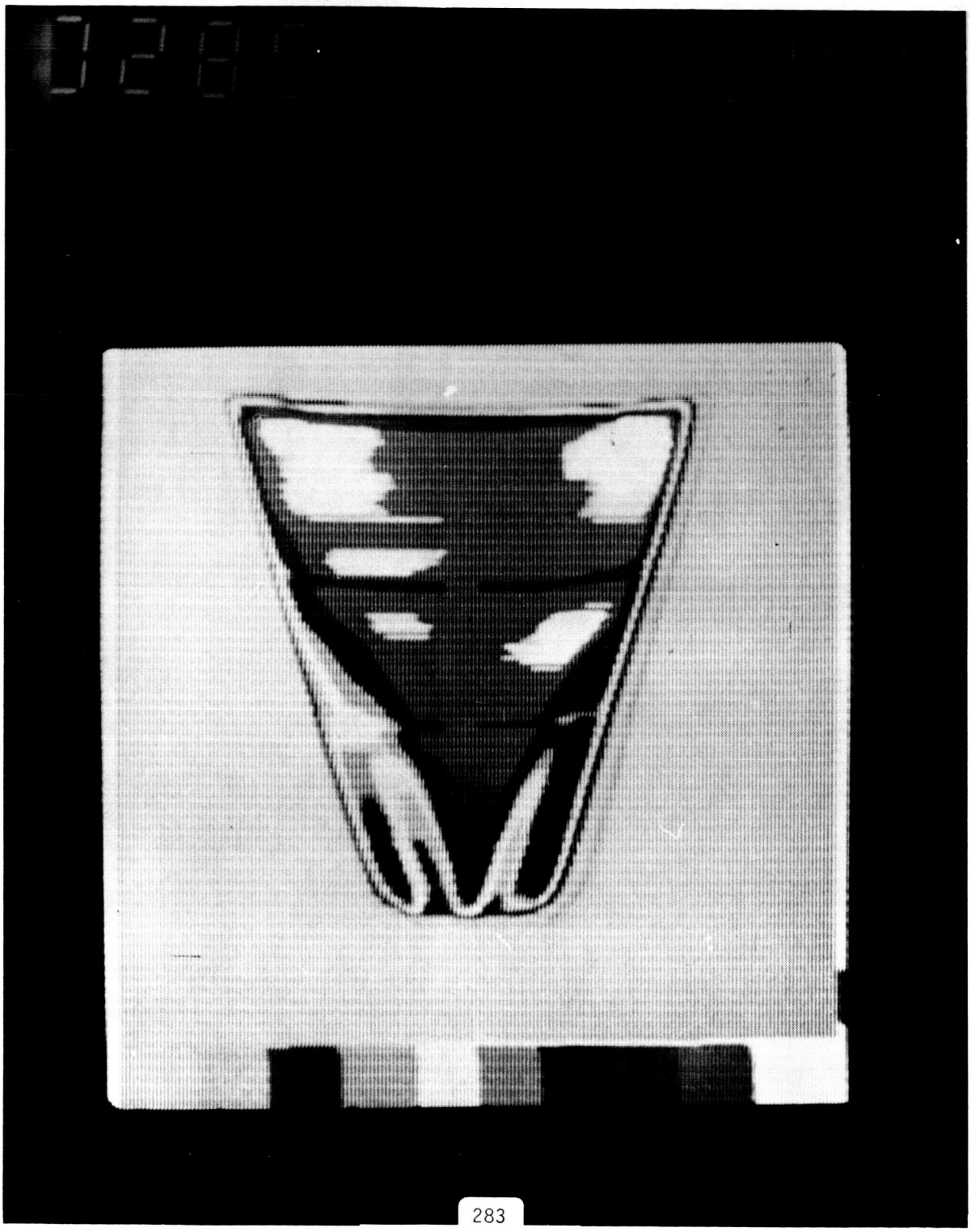

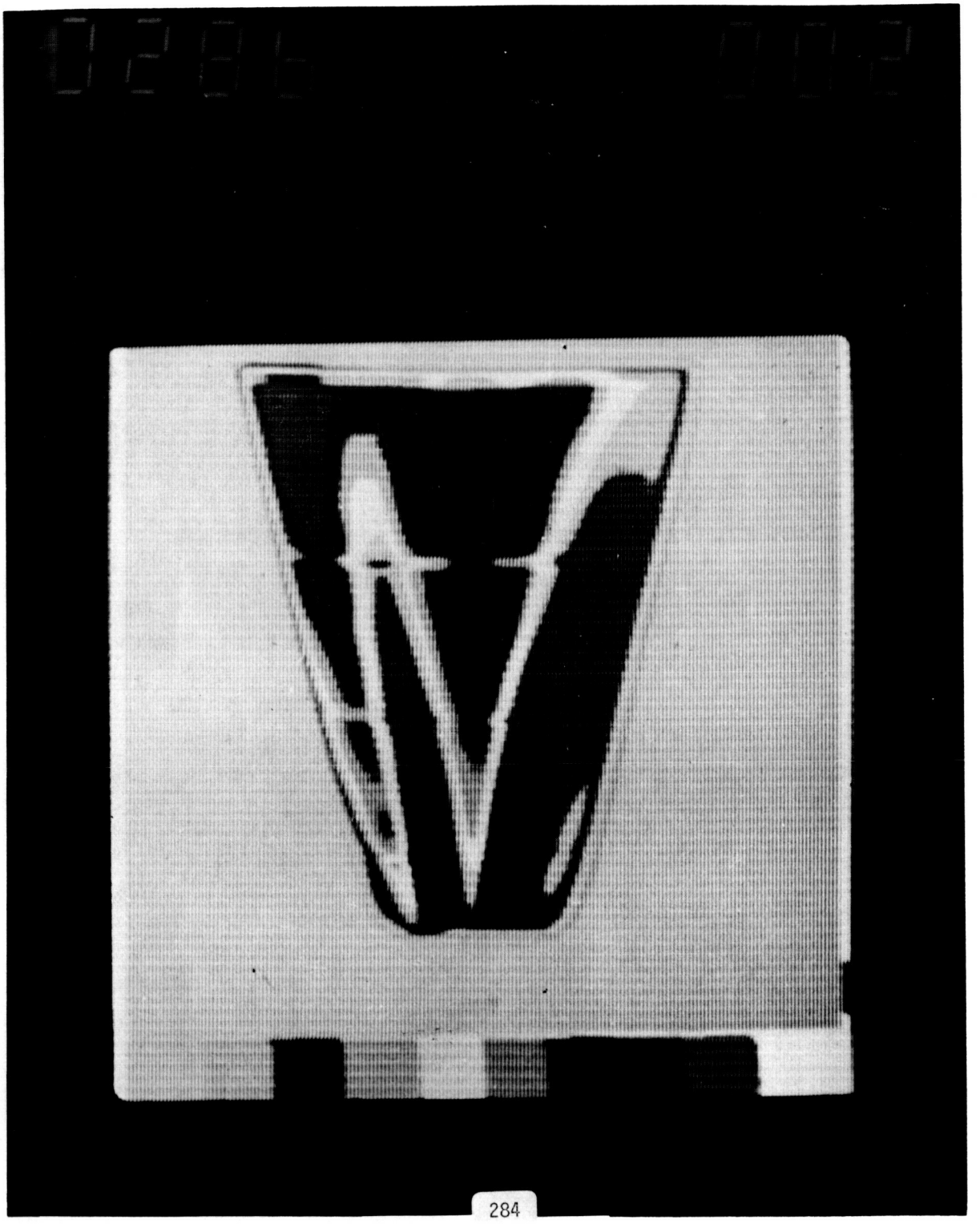

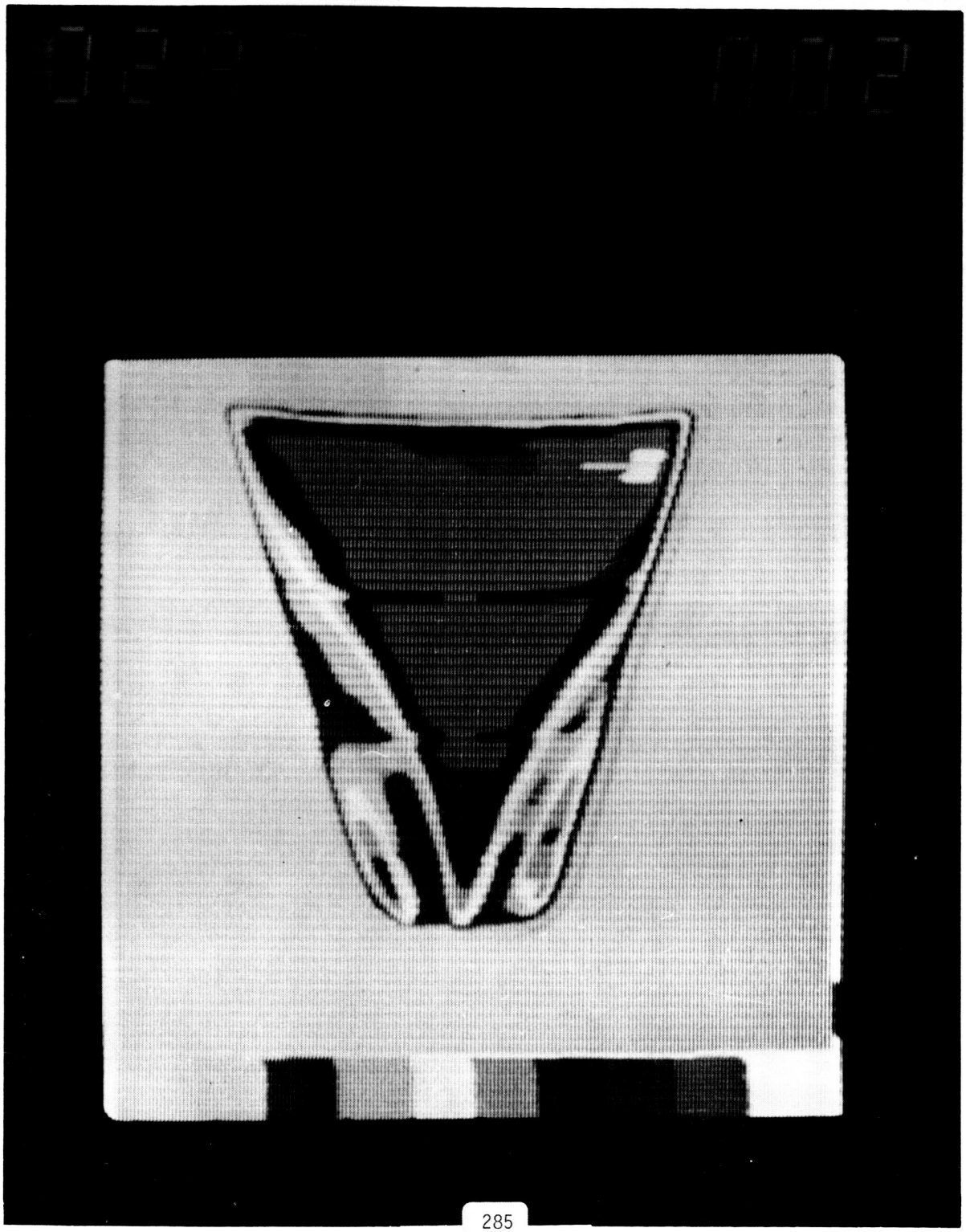

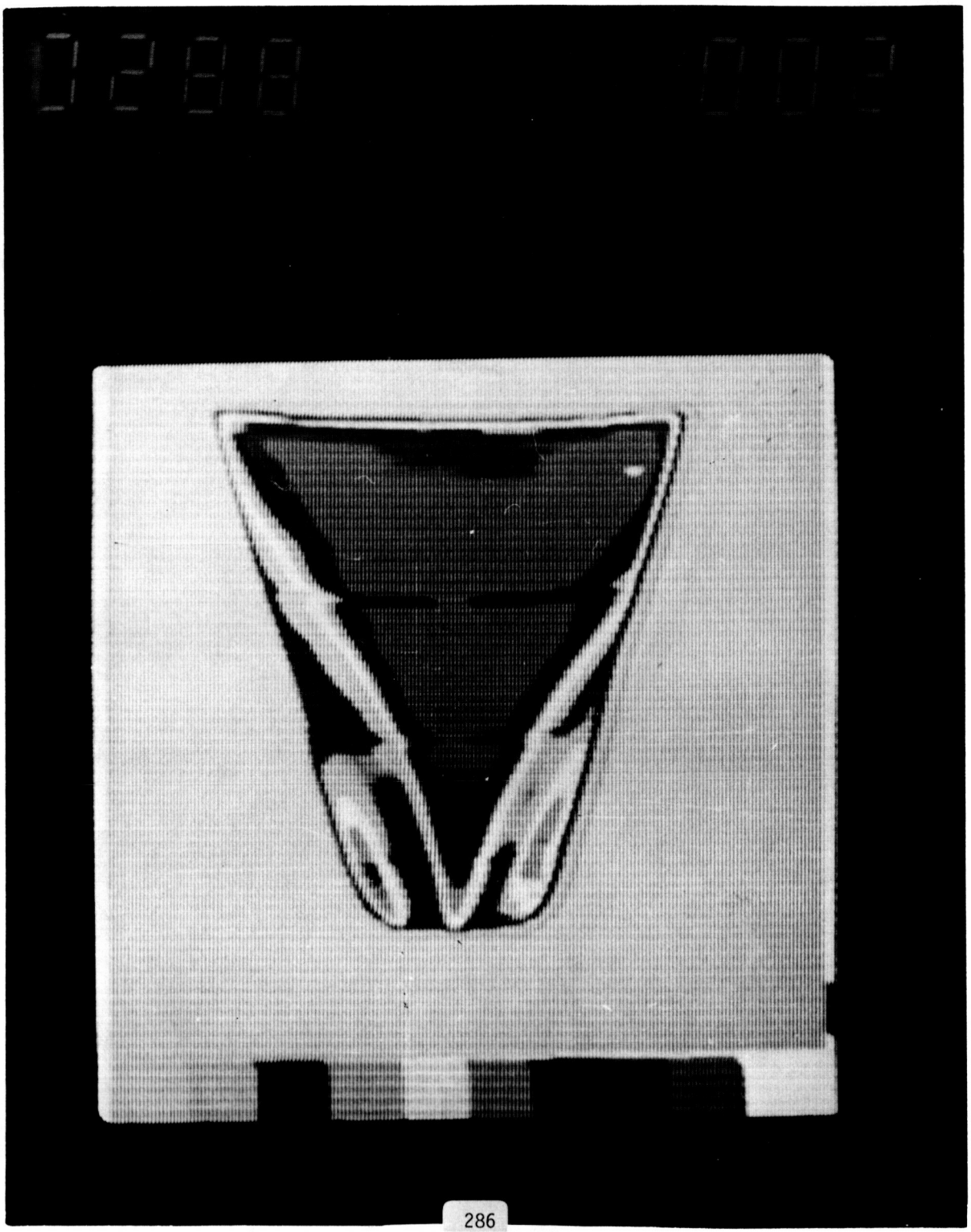

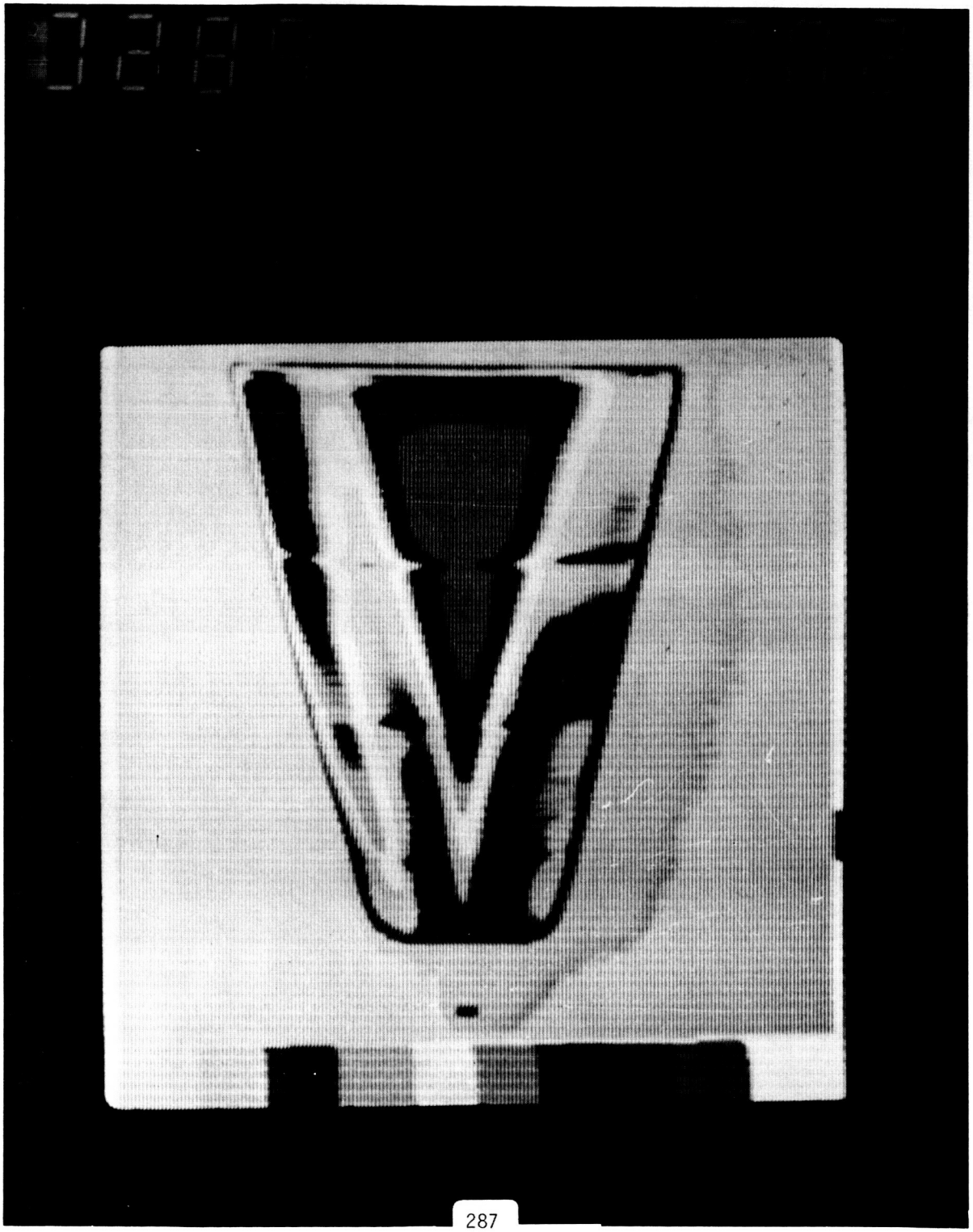

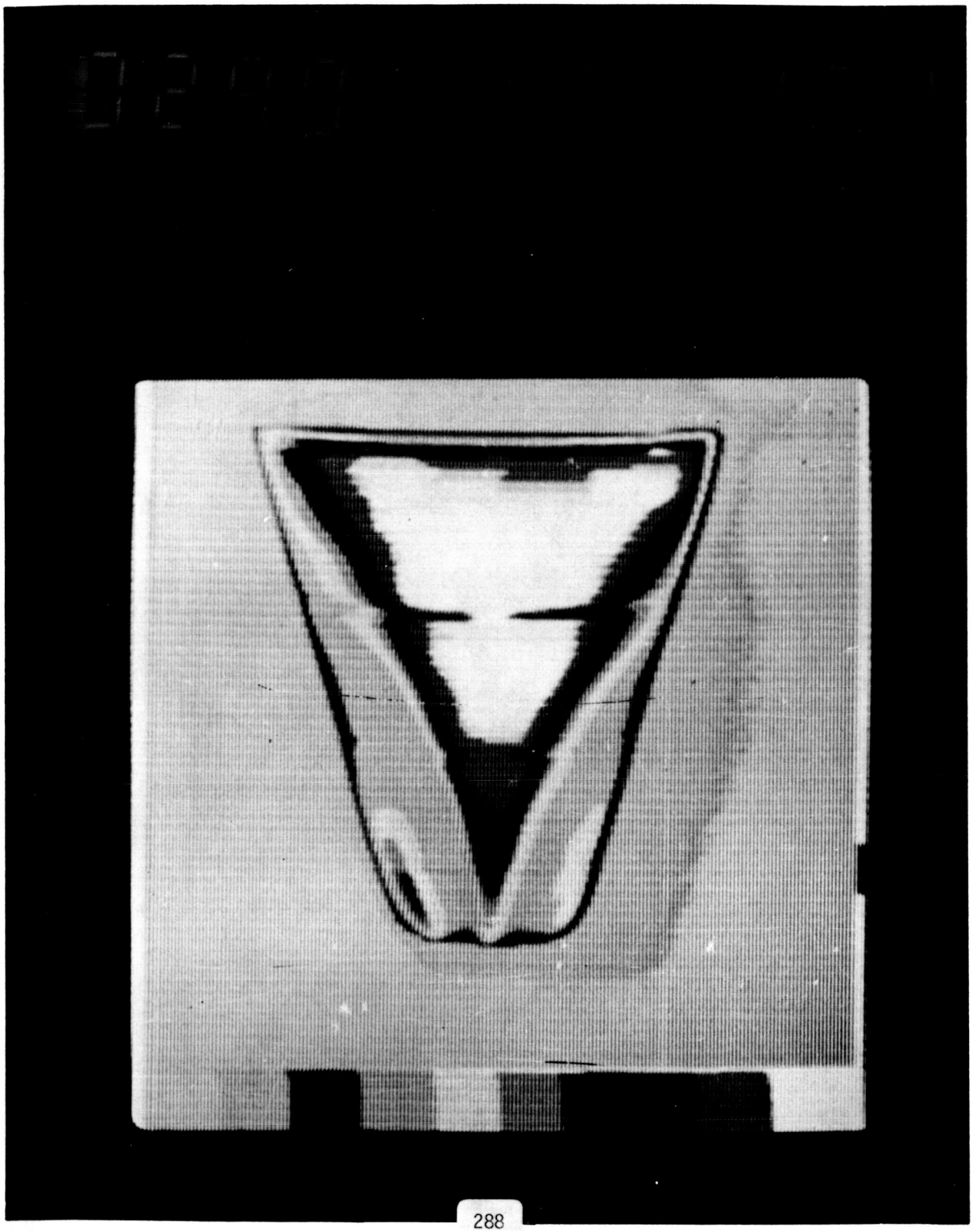

APPENDIX C.

TABULATED SOURCE DATA

VOLUME 1 GROUPS 1-147

VOLUME 2 GROUPS 148-290

TABULATED AND PLOTTED DATA OMITTED

GROUP NO.	PROBLEM
24	Tape parity error
34	No IR Analog Data
38	Tape parity error (time record lost)
44	Model retracted prematurely, no useful data
49	Tape parity error
65	↓
76	↓
78	↓
80	↓
102	↓
146	No IR Analog Data
201	↓
202	↓
253	↓

NASA/RI 0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
1	7	TILE INSERT	0.111	.010	.020	1.413E 06	4.933E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	672.6	1338	29.39	29.99	30.00	.61	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
97.1	.0695	3.104	3859	5.999E-05	7.821E-08	2.960E 06	2.876E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.712	3.163	11.936	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.61	.089	595.91	1.160E-03	.0403	1.416E-03	.0492	1.591E-03	.0553	1.378E-03	.0479
5.10	.099	650.93	2.458E-03	.0855	3.052E-03	.1061	3.472E-03	.1207	2.964E-03	.1030
5.58	.108	590.31	1.043E-03	.0362	1.270E-03	.0442	1.425E-03	.0496	1.236E-03	.0430
6.06	.117	587.21	9.785E-04	.0340	1.191E-03	.0414	1.336E-03	.0464	1.160E-03	.0403
6.54	.126	584.91	1.014E-03	.0352	1.234E-03	.0429	1.385E-03	.0481	1.202E-03	.0418
7.02	.136	584.87	9.308E-04	.0324	1.132E-03	.0394	1.269E-03	.0441	1.102E-03	.0383
7.49	.145	633.58	2.020E-03	.0702	2.494E-03	.0867	2.825E-03	.0982	2.423E-03	.0843
7.96	.154	782.42	6.828E-03	.2374	8.995E-03	.3128	1.069E-02	.3718	8.655E-03	.3009
8.43	.163	772.76	6.443E-03	.2240	8.443E-03	.2936	9.994E-03	.3475	8.130E-03	.2827
8.90	.172	784.79	6.925E-03	.2408	9.135E-03	.3176	1.087E-02	.3780	8.788E-03	.3055
9.36	.181	786.98	7.015E-03	.2439	9.266E-03	.3222	1.104E-02	.3838	8.912E-03	.3099
9.82	.190	787.67	7.044E-03	.2449	9.308E-03	.3236	1.109E-02	.3856	8.952E-03	.3112
10.28	.199	794.75	7.341E-03	.2552	9.742E-03	.3387	1.165E-02	.4049	9.362E-03	.3255
10.74	.208	774.70	6.679E-03	.2322	8.781E-03	.3053	1.042E-02	.3623	8.451E-03	.2939
11.19	.216	797.16	7.444E-03	.2588	9.893E-03	.3440	1.184E-02	.4117	9.506E-03	.3305
11.65	.225	801.99	7.654E-03	.2661	1.020E-02	.3547	1.224E-02	.4256	9.796E-03	.3407
12.10	.234	805.83	7.824E-03	.2720	1.045E-02	.3635	1.257E-02	.4369	1.004E-02	.3489
12.54	.242	805.33	7.802E-03	.2713	1.042E-02	.3623	1.252E-02	.4354	1.000E-02	.3479
12.99	.251	805.00	7.788E-03	.2708	1.040E-02	.3616	1.250E-02	.4344	9.985E-03	.3472
13.43	.260	792.89	7.263E-03	.2525	9.628E-03	.3348	1.150E-02	.3998	9.255E-03	.3218
13.87	.268	809.57	7.993E-03	.2779	1.070E-02	.3722	1.289E-02	.4483	1.027E-02	.3572

NASA/RI-0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
1	7	TILE INSERT	0.111	.010	.020	1.413E 06	4.933E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	672.6	1338	29.39	29.99	30.00	.61	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
97.1	.0695	3.104	3859	5.999E-05	7.821E-08	2.960E 06	2.876E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.712	3.163	11.936	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
14.30	.277	808.92	7.964E-03	.2769	1.066E-02	.3707	1.284E-02	.4463	1.023E-02	.3558
14.74	.285	809.89	8.008E-03	.2784	1.073E-02	.3730	1.292E-02	.4493	1.029E-02	.3579
15.17	.293	813.11	8.152E-03	.2834	1.094E-02	.3805	1.320E-02	.4590	1.050E-02	.3650
15.60	.302	803.92	7.741E-03	.2691	1.033E-02	.3592	1.241E-02	.4313	9.919E-03	.3449
16.03	.310	804.00	7.745E-03	.2693	1.034E-02	.3594	1.241E-02	.4316	9.925E-03	.3451
16.45	.318	814.05	8.194E-03	.2849	1.101E-02	.3827	1.329E-02	.4620	1.056E-02	.3671
16.87	.326	814.68	8.223E-03	.2859	1.105E-02	.3842	1.334E-02	.4639	1.060E-02	.3685
17.29	.334	815.50	8.260E-03	.2872	1.110E-02	.3861	1.342E-02	.4665	1.065E-02	.3703
17.71	.342	814.05	8.195E-03	.2849	1.101E-02	.3827	1.329E-02	.4620	1.056E-02	.3671
18.12	.350	808.28	7.937E-03	.2760	1.062E-02	.3693	1.278E-02	.4444	1.019E-02	.3544
18.54	.358	803.21	7.711E-03	.2681	1.029E-02	.3576	1.235E-02	.4293	9.877E-03	.3434
18.95	.366	814.02	8.194E-03	.2849	1.101E-02	.3827	1.329E-02	.4619	1.056E-02	.3671
19.35	.374	814.41	8.212E-03	.2855	1.103E-02	.3836	1.332E-02	.4631	1.058E-02	.3679
19.76	.382	814.95	8.236E-03	.2864	1.107E-02	.3849	1.337E-02	.4648	1.062E-02	.3692
20.16	.390	811.17	8.067E-03	.2805	1.082E-02	.3761	1.304E-02	.4533	1.038E-02	.3608
20.56	.397	805.52	7.949E-03	.2764	1.064E-02	.3699	1.281E-02	.4452	1.021E-02	.3550
20.96	.405	790.96	7.186E-03	.2498	9.514E-03	.3308	1.135E-02	.3947	9.147E-03	.3180
21.35	.413	814.09	8.199E-03	.2851	1.101E-02	.3829	1.329E-02	.4622	1.056E-02	.3673
21.75	.420	817.58	8.356E-03	.2905	1.125E-02	.3912	1.361E-02	.4731	1.079E-02	.3751
22.14	.428	817.77	8.365E-03	.2908	1.126E-02	.3916	1.362E-02	.4737	1.080E-02	.3755
22.52	.435	817.85	8.369E-03	.2910	1.127E-02	.3918	1.363E-02	.4740	1.081E-02	.3757
22.91	.443	815.69	8.271E-03	.2876	1.112E-02	.3867	1.344E-02	.4672	1.067E-02	.3709

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
1	7	TILE INSERT	0.111	.010	.020	1.413E 06	4.933E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	672.6	1338	29.39	29.99	30.00	.61	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
97.1	.0635	3.104	3859	5.999E-05	7.821E-08	2.960E 06	2.876E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.712	3.163	11.936	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
23.29	.450	797.55	7.467E-03	.2596	9.925E-03	.3451	1.188E-02	.4131	9.536E-03	.3316
23.67	.458	813.15	8.158E-03	.2836	1.095E-02	.3808	1.321E-02	.4594	1.051E-02	.3653
24.05	.465	820.02	8.468E-03	.2944	1.142E-02	.3971	1.383E-02	.4809	1.095E-02	.3806
24.42	.472	820.17	8.475E-03	.2947	1.143E-02	.3974	1.384E-02	.4813	1.096E-02	.3810
24.80	.479	815.73	8.274E-03	.2877	1.113E-02	.3869	1.344E-02	.4674	1.067E-02	.3710
25.17	.486	814.88	8.236E-03	.2864	1.107E-02	.3848	1.337E-02	.4648	1.062E-02	.3691
25.53	.494	813.31	8.166E-03	.2839	1.096E-02	.3812	1.323E-02	.4600	1.052E-02	.3657
25.90	.501	781.46	6.797E-03	.2363	8.950E-03	.3112	1.063E-02	.3697	8.612E-03	.2994

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
1	7	TILE INSERT	0.111	.010	.020	1.413E 06	4.933E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	672.6	1338	29.39	29.99	30.00	.61	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
97.1	.0695	3.104	3859	5.599E-05	7.821E-08	2.960E 06	2.876E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.712	3.163	11.936	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.387	537.95	537.15	534.49	533.57	532.80	532.47	0	0	531.14	532.21
2.384	542.60	541.48	537.74	535.91	534.16	533.27	0	0	532.25	533.73
3.381	546.21	544.80	540.45	537.97	535.46	534.10	0	0	533.55	535.30
4.377	549.14	547.58	542.77	539.89	536.71	534.96	0	0	534.85	536.81
5.374	551.76	550.01	544.92	541.66	537.92	535.79	0	0	536.14	538.33
6.370	554.12	552.26	546.88	543.33	539.10	536.59	0	0	537.48	539.76
7.367	556.31	554.33	548.76	544.95	540.24	537.38	0	0	538.78	541.18
8.363	558.34	556.28	550.51	546.44	541.36	538.21	0	0	540.11	542.56
9.360	560.25	558.08	552.17	547.94	542.51	539.04	0	0	541.40	543.94
10.357	562.05	559.82	553.78	549.37	543.63	539.86	0	0	542.70	545.27
11.353	563.75	561.50	555.32	550.77	544.74	540.72	0	0	544.03	546.74
12.350	565.40	563.09	556.83	552.14	545.86	541.57	0	0	545.32	548.02
13.346	566.96	564.59	558.25	553.43	546.94	542.42	0	0	546.65	549.31
14.343	568.48	566.09	559.67	554.74	548.05	543.30	0	0	547.94	550.55
15.339	569.92	567.51	561.01	556.02	549.14	544.21	0	0	549.22	551.92
16.336	571.33	568.89	562.34	557.27	550.22	545.12	0	0	550.46	553.25
17.333	572.71	570.24	563.64	558.46	551.30	546.06	0	0	551.75	554.58
18.329	574.06	571.53	564.91	559.67	552.38	546.94	0	0	553.03	555.77
19.326	575.34	572.82	566.15	560.86	553.43	547.88	0	0	554.36	557.09
20.322	576.60	574.06	567.39	562.05	554.50	548.81	0	0	555.59	558.37

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
1	7	TILE INSERT	0.111	.010	.020	1.413E 06	4.933E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	672.6	1338	29.39	29.99	30.00	.61	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
97.1	.0695	3.104	3859	5.999E-05	7.821E-08	2.960E 06	2.876E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.712	3.163	11.936	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.194	1
9.200	2
14.297	3

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACIL
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
2	7	TILE INSERT	0.111	.010	.020	9.268E 05	3.236E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.0	1305	29.62	30.00	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.0	.0441	1.967	3812	3.897E-05	7.650E-08	1.942E 06	2.280E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.977	3.250	26.152	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.61	.089	584.99	6.462E-04	.0283	7.893E-04	.0346	8.875E-04	.0389	7.681E-04	.0337
5.10	.099	646.28	1.642E-03	.0720	2.047E-03	.0898	2.335E-03	.1024	1.986E-03	.0871
5.58	.108	584.99	6.462E-04	.0283	7.893E-04	.0346	8.875E-04	.0389	7.681E-04	.0337
6.54	.126	572.84	4.757E-04	.0209	5.789E-04	.0254	6.493E-04	.0285	5.637E-04	.0247
7.49	.145	657.46	1.850E-03	.0811	2.317E-03	.1016	2.651E-03	.1163	2.246E-03	.0985
7.96	.154	747.91	3.912E-03	.1716	5.108E-03	.2240	6.030E-03	.2645	4.921E-03	.2158
8.43	.163	748.27	3.921E-03	.1720	5.122E-03	.2246	6.047E-03	.2652	4.934E-03	.2164
8.90	.172	762.94	4.313E-03	.1892	5.680E-03	.2491	6.750E-03	.2960	5.465E-03	.2397
9.36	.181	763.16	4.319E-03	.1894	5.689E-03	.2495	6.761E-03	.2965	5.473E-03	.2400
9.82	.190	769.02	4.481E-03	.1965	5.923E-03	.2598	7.059E-03	.3096	5.695E-03	.2498
10.28	.199	775.76	4.672E-03	.2049	6.200E-03	.2719	7.413E-03	.3251	5.958E-03	.2613
10.74	.208	772.32	4.574E-03	.2006	6.058E-03	.2657	7.231E-03	.3171	5.823E-03	.2554
11.19	.216	795.04	5.246E-03	.2301	7.049E-03	.3092	8.513E-03	.3734	6.761E-03	.2965
11.65	.225	798.17	5.344E-03	.2344	7.196E-03	.3156	8.705E-03	.3818	6.899E-03	.3026
12.10	.234	798.13	5.343E-03	.2343	7.194E-03	.3155	8.703E-03	.3817	6.897E-03	.3025
12.54	.242	797.87	5.334E-03	.2340	7.182E-03	.3150	8.687E-03	.3810	6.886E-03	.3020
12.99	.251	782.72	4.875E-03	.2138	6.498E-03	.2850	7.796E-03	.3419	6.240E-03	.2737
13.43	.260	800.83	5.428E-03	.2381	7.323E-03	.3212	8.871E-03	.3891	7.018E-03	.3078
13.87	.268	806.54	5.612E-03	.2461	7.601E-03	.3334	9.239E-03	.4052	7.280E-03	.3193
14.30	.277	808.78	5.685E-03	.2493	7.713E-03	.3383	9.387E-03	.4117	7.385E-03	.3239
14.74	.285	812.22	5.797E-03	.2542	7.885E-03	.3458	9.616E-03	.4217	7.547E-03	.3310

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
2	7	TILE INSERT	0.111	.010	.020	9.268E 05	3.236E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.0	1305	29.62	30.00	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.0	.0441	1.967	3812	3.897E-05	7.650E-08	1.942E 06	2.280E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.977	3.250	26.152	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.17	.293	812.22	5.797E-03	.2543	7.885E-03	.3458	9.616E-03	.4217	7.547E-03	.3310
15.60	.302	786.91	4.999E-03	.2192	6.682E-03	.2930	8.034E-03	.3523	6.414E-03	.2813
16.03	.310	812.93	5.821E-03	.2553	7.921E-03	.3474	9.664E-03	.4238	7.581E-03	.3325
16.45	.318	814.58	5.875E-03	.2576	8.004E-03	.3510	9.775E-03	.4287	7.659E-03	.3359
16.87	.326	814.81	5.882E-03	.2580	8.016E-03	.3515	9.791E-03	.4294	7.670E-03	.3364
17.29	.334	815.47	5.904E-03	.2589	8.049E-03	.3530	9.836E-03	.4314	7.702E-03	.3378
17.71	.342	814.42	5.870E-03	.2574	7.996E-03	.3507	9.765E-03	.4283	7.652E-03	.3356
18.12	.350	792.15	5.158E-03	.2262	6.918E-03	.3034	8.341E-03	.3658	6.637E-03	.2911
18.54	.358	808.54	5.678E-03	.2490	7.702E-03	.3378	9.372E-03	.4110	7.375E-03	.3234
18.95	.366	811.62	5.778E-03	.2534	7.856E-03	.3445	9.577E-03	.4200	7.520E-03	.3298
19.35	.374	812.18	5.797E-03	.2542	7.884E-03	.3458	9.615E-03	.4217	7.546E-03	.3310
19.76	.382	809.46	5.708E-03	.2504	7.749E-03	.3398	9.434E-03	.4138	7.419E-03	.3254
20.16	.390	807.89	5.657E-03	.2481	7.669E-03	.3364	9.329E-03	.4092	7.345E-03	.3221
20.56	.397	794.20	5.221E-03	.2290	7.013E-03	.3076	8.464E-03	.3712	6.726E-03	.2950
20.96	.405	803.52	5.515E-03	.2419	7.454E-03	.3269	9.045E-03	.3967	7.142E-03	.3132
21.35	.413	815.71	5.912E-03	.2593	8.062E-03	.3536	9.853E-03	.4321	7.714E-03	.3383
21.75	.420	818.97	6.020E-03	.2640	8.229E-03	.3609	1.008E-02	.4420	7.870E-03	.3452
22.14	.428	818.21	5.995E-03	.2629	8.190E-03	.3592	1.003E-02	.4397	7.834E-03	.3436
22.52	.435	817.06	5.957E-03	.2613	8.131E-03	.3566	9.946E-03	.4362	7.779E-03	.3411
22.91	.443	814.89	5.886E-03	.2581	8.021E-03	.3518	9.798E-03	.4297	7.675E-03	.3366
23.29	.450	793.44	5.199E-03	.2280	6.978E-03	.3061	8.420E-03	.3693	6.694E-03	.2936
23.67	.458	816.48	5.938E-03	.2604	8.102E-03	.3553	9.907E-03	.4345	7.751E-03	.3399

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
2	7	TILE INSERT	0.111	.010	.020	9.268E 05	3.236E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.0	1305	29.62	30.00	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (B=0.040FT)	INITIAL TEMP (DEG F)
95.0	.0441	1.967	3812	3.897E-05	7.650E-08	1.942E 06	2.280E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.977	3.250	26.152	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.05	.465	818.10	5.992E-03	.2628	8.185E-03	.3590	1.002E-02	.4394	7.829E-03	.3433
24.42	.472	813.48	5.840E-03	.2561	7.950E-03	.3487	9.704E-03	.4256	7.609E-03	.3337
24.80	.479	811.74	5.783E-03	.2536	7.863E-03	.3449	9.587E-03	.4205	7.527E-03	.3301
25.17	.486	811.27	5.768E-03	.2530	7.840E-03	.3438	9.555E-03	.4191	7.505E-03	.3291
25.53	.494	802.09	5.470E-03	.2399	7.386E-03	.3239	8.955E-03	.3927	7.078E-03	.3104
25.90	.501	756.94	4.152E-03	.1821	5.450E-03	.2390	6.459E-03	.2833	5.246E-03	.2301

C-

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
2	7	TILE INSERT	0.111	.010	.020	9.268E 05	3.236E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.0	1305	29.62	30.00	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.0	.0441	1.967	3812	3.897E-05	7.650E-08	1.942E 06	2.280E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
27.977	3.250	26.152	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.426	533.83	533.18	531.08	530.39	529.95	529.50	0	0	528.31	529.21
2.422	537.41	536.49	533.57	532.17	530.87	530.16	0	0	528.98	529.97
3.419	540.12	539.00	535.61	533.77	531.88	530.84	0	0	529.75	530.82
4.415	542.36	541.12	537.41	535.22	532.82	531.46	0	0	530.51	531.67
5.412	544.38	543.03	539.06	536.58	533.77	532.11	0	0	531.18	532.48
6.408	546.20	544.74	540.56	537.88	534.66	532.74	0	0	531.94	533.33
7.405	547.87	546.32	542.01	539.09	535.55	533.36	0	0	532.75	534.09
8.402	549.45	547.81	543.36	540.27	536.43	534.01	0	0	533.42	534.89
9.398	550.88	549.22	544.65	541.42	537.29	534.63	0	0	534.18	535.70
10.395	552.28	550.56	545.88	542.50	538.15	535.28	0	0	534.94	536.41
11.391	553.60	551.82	547.05	543.56	539.00	535.93	0	0	535.65	537.22
12.388	554.88	553.04	548.19	544.62	539.86	536.58	0	0	536.41	537.97
13.384	556.07	554.24	549.31	545.65	540.71	537.23	0	0	537.13	538.73
14.381	557.23	555.37	550.39	546.64	541.56	537.94	0	0	537.88	539.40
15.378	558.36	556.48	551.44	547.61	542.39	538.65	0	0	538.60	540.20
16.374	559.44	557.55	552.46	548.57	543.24	539.33	0	0	539.31	540.96
17.371	560.51	558.57	553.48	549.51	544.06	540.03	0	0	540.07	541.72
18.367	561.52	559.58	554.44	550.45	544.88	540.71	0	0	540.74	542.38
19.364	562.54	560.60	555.40	551.38	545.70	541.45	0	0	541.45	543.05
20.360	563.52	561.52	556.33	552.28	546.53	542.15	0	0	542.21	543.81
21.357	564.47	562.48	557.26	553.16	547.32	542.89	0	0	542.92	544.61

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
2	7	TILE INSERT	0.111	.010	.020	9.268E 05	3.236E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.0	1305	29.62	30.00	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.0	.0441	1.967	3812	3.897E-05	7.650E-08	1.942E 06	2.280E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.977	3.250	26.152	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.354	565.42	563.40	558.16	554.03	548.14	543.59	0	0	543.67	545.32
23.350	566.32	564.33	559.09	554.93	548.95	544.33	0	0	544.38	545.98
24.347	567.27	565.22	559.96	555.78	549.74	545.06	0	0	545.10	546.69
25.343	568.13	566.12	560.86	556.62	550.56	545.82	0	0	545.81	547.45

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
2	7	TILE INSERT	0.111	.010	.020	9.268E 05	3.236E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.0	1305	29.62	30.00	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.0	.0441	1.967	3812	3.897E-05	7.650E-08	1.942E 06	2.280E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.977	3.250	26.152	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.662	1
8.557	2
14.651	3

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
3	7	TILE INSERT	0.111	.010	.020	9.270E 05	3.237E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.1	1307	39.43	40.01	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0443	1.973	3815	3.901E-05	7.662E-08	1.942E 06	2.284E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.097	3.104	17.354	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
6.63	.128	593.42	1.021E-03	.0447	1.250E-03	.0547	1.407E-03	.0616	1.161E-03	.0508
7.20	.139	626.56	1.669E-03	.0731	2.066E-03	.0905	2.345E-03	.1027	1.912E-03	.0837
7.77	.150	773.75	5.753E-03	.2519	7.620E-03	.3337	9.096E-03	.3983	6.861E-03	.3005
8.33	.161	779.99	5.974E-03	.2616	7.943E-03	.3478	9.511E-03	.4165	7.141E-03	.3127
8.89	.172	790.71	6.365E-03	.2787	8.522E-03	.3732	1.026E-02	.4493	7.640E-03	.3346
9.45	.183	795.70	6.554E-03	.2870	8.803E-03	.3855	1.063E-02	.4654	7.882E-03	.3451
10.00	.193	803.65	6.862E-03	.3005	9.268E-03	.4058	1.124E-02	.4921	8.279E-03	.3625
10.54	.204	797.53	6.624E-03	.2901	8.909E-03	.3901	1.077E-02	.4714	7.972E-03	.3491
11.08	.214	817.06	7.400E-03	.3240	1.009E-02	.4419	1.233E-02	.5401	8.979E-03	.3932
11.62	.225	819.09	7.482E-03	.3276	1.022E-02	.4475	1.251E-02	.5476	9.087E-03	.3979
12.15	.235	823.59	7.667E-03	.3357	1.051E-02	.4601	1.289E-02	.5646	9.329E-03	.4085
12.68	.245	823.07	7.646E-03	.3348	1.047E-02	.4586	1.285E-02	.5627	9.301E-03	.4073
13.20	.255	811.79	7.188E-03	.3148	9.765E-03	.4276	1.190E-02	.5209	8.702E-03	.3810
13.72	.265	827.15	7.814E-03	.3422	1.074E-02	.4702	1.321E-02	.5784	9.524E-03	.4171
14.23	.275	829.49	7.912E-03	.3465	1.089E-02	.4770	1.342E-02	.5877	9.654E-03	.4227
14.74	.285	833.11	7.553E-03	.3308	1.043E-02	.4567	1.288E-02	.5640	9.232E-03	.4042
15.24	.295	831.94	8.015E-03	.3510	1.106E-02	.4841	1.364E-02	.5975	9.791E-03	.4287
15.74	.304	813.17	7.244E-03	.3172	9.851E-03	.4313	1.201E-02	.5260	8.775E-03	.3842
16.23	.314	830.78	7.967E-03	.3488	1.098E-02	.4807	1.354E-02	.5928	9.726E-03	.4259
16.72	.323	833.88	7.579E-03	.3319	1.047E-02	.4585	1.294E-02	.5665	9.266E-03	.4057
17.20	.333	834.29	7.592E-03	.3325	1.049E-02	.4594	1.297E-02	.5679	9.284E-03	.4065

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
3	7	TILE INSERT	0.111	.010	.020	9.270E 05	3.237E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.1	1307	39.43	40.01	30.00	-9.43	40.00	0

T-INF (DEG R)	P-INF (PSIA)	Q-INF (PSIA)	V-INF (FT/SEC)	RHO-INF (SLUG/FT3)	MU-INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0443	1.973	3815	3.901E-05	7.662E-08	1.942E 06	2.284E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.097	3.104	17.354	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.68	.342	832.72	8.049E-03	.3524	1.111E-02	.4865	1.372E-02	.6007	9.835E-03	.4307
18.15	.351	815.25	7.328E-03	.3209	9.980E-03	.4370	1.218E-02	.5335	8.885E-03	.3890
18.62	.360	830.38	7.951E-03	.3482	1.095E-02	.4796	1.350E-02	.5913	9.705E-03	.4250
19.09	.369	831.66	8.005E-03	.3505	1.104E-02	.4834	1.362E-02	.5964	9.776E-03	.4281
19.55	.378	831.52	7.999E-03	.3503	1.103E-02	.4830	1.361E-02	.5959	9.769E-03	.4278
20.00	.387	829.49	7.914E-03	.3465	1.090E-02	.4771	1.342E-02	.5878	9.656E-03	.4228
20.45	.395	828.45	7.870E-03	.3446	1.083E-02	.4741	1.333E-02	.5837	9.598E-03	.4203
20.90	.404	801.93	6.797E-03	.2976	9.169E-03	.4015	1.111E-02	.4864	8.195E-03	.3589
21.34	.413	829.56	7.917E-03	.3467	1.090E-02	.4773	1.343E-02	.5881	9.660E-03	.4230
21.78	.421	834.57	7.602E-03	.3329	1.051E-02	.4602	1.299E-02	.5689	9.298E-03	.4071
22.21	.429	833.28	7.561E-03	.3311	1.044E-02	.4572	1.290E-02	.5647	9.242E-03	.4047
22.63	.438	832.97	7.551E-03	.3307	1.042E-02	.4565	1.287E-02	.5637	9.228E-03	.4041
23.06	.446	831.63	8.004E-03	.3505	1.104E-02	.4834	1.362E-02	.5964	9.776E-03	.4281
23.47	.454	809.31	7.092E-03	.3105	9.617E-03	.4211	1.170E-02	.5123	8.577E-03	.3756
23.88	.462	832.54	8.043E-03	.3522	1.110E-02	.4861	1.370E-02	.6001	9.828E-03	.4303
24.29	.470	833.63	7.573E-03	.3316	1.046E-02	.4580	1.292E-02	.5659	9.258E-03	.4054
24.69	.477	829.99	7.936E-03	.3475	1.093E-02	.4786	1.347E-02	.5899	9.686E-03	.4241
25.09	.485	830.38	7.953E-03	.3483	1.096E-02	.4798	1.351E-02	.5915	9.708E-03	.4251
25.49	.493	826.28	7.782E-03	.3408	1.069E-02	.4679	1.314E-02	.5753	9.481E-03	.4151
25.87	.500	792.73	6.445E-03	.2822	8.641E-03	.3784	1.041E-02	.4560	7.742E-03	.3390

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
3	7	TILE INSERT	0.111	.010	.020	9.270E 05	3.237E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.1	1307	39.43	40.01	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0443	1.973	3815	3.901E-05	7.662E-08	1.942E 06	2.284E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.097	3.104	17.354	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.361	539.79	539.70	538.08	537.61	537.14	537.05	0	0	531.81	534.45
2.358	543.41	543.12	540.76	539.65	538.50	537.88	0	0	533.33	536.55
3.355	546.02	545.61	542.91	541.38	539.67	538.73	0	0	535.16	538.73
4.351	548.19	547.69	544.73	542.91	540.76	539.50	0	0	537.04	540.92
5.348	550.12	549.53	546.37	544.32	541.79	540.26	0	0	538.82	542.87
6.344	551.87	551.23	547.87	545.64	542.79	541.00	0	0	540.69	544.87
7.341	553.50	552.77	549.30	546.87	543.73	541.74	0	0	542.47	546.74
8.337	555.02	554.23	550.64	548.07	544.67	542.44	0	0	544.30	548.60
9.334	556.44	555.63	551.90	549.21	545.58	543.18	0	0	546.07	550.51
10.331	557.84	556.94	553.15	550.32	546.49	543.85	0	0	547.80	552.19
11.327	559.11	558.21	554.35	551.40	547.37	544.61	0	0	549.53	554.09
12.324	560.36	559.40	555.48	552.48	548.28	545.32	0	0	551.26	555.73
13.320	561.58	560.59	556.59	553.50	549.15	546.02	0	0	552.94	557.54
14.317	562.73	561.72	557.66	554.52	550.03	546.78	0	0	554.67	559.21
15.313	563.86	562.82	558.74	555.54	550.91	547.52	0	0	556.39	560.84
16.310	564.93	563.89	559.78	556.50	551.78	548.28	0	0	558.07	562.56
17.307	566.03	564.93	560.79	557.43	552.63	549.01	0	0	559.74	564.19
18.303	567.06	565.97	561.78	558.39	553.47	549.74	0	0	561.42	565.90
19.300	568.10	566.95	562.73	559.35	554.35	550.53	0	0	563.00	567.53
20.296	569.08	567.96	563.72	560.24	555.19	551.29	0	0	564.72	569.15
21.293	570.06	568.93	564.64	561.17	556.03	552.07	0	0	566.34	570.78

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
3	7	TILE INSERT	0.111	.010	.020	9.270E 05	3.237E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.1	1307	39.43	40.01	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0443	1.973	3815	3.901E-05	7.662E-08	1.942E 06	2.284E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.097	3.104	17.354	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.289	571.03	569.88	565.59	562.07	556.88	552.80	0	0	567.97	572.40
23.286	571.95	570.80	566.49	562.94	557.72	553.56	0	0	569.64	573.98
24.283	572.87	571.72	567.41	563.80	558.56	554.38	0	0	571.30	575.64
25.279	573.79	572.64	568.30	564.70	559.40	555.16	0	0	572.92	577.39
26.276	574.68	573.53	569.19	565.56	560.21	555.92	0	0	574.63	579.01
27.272	575.59	574.42	570.09	566.43	561.05	556.70	0	0	576.25	580.71

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
3	7	TILE INSERT	0.111	.010	.020	9.270E 05	3.237E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.1	1307	39.43	40.01	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0443	1.973	3815	3.901E-05	7.662E-08	1.942E 06	2.284E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.097	3.104	17.354	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.553	1
11.967	2
16.909	3

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.31 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
4	7	TILE INSERT	0.111	.010	.020	7.040E 05	2.458E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	317.1	1298	39.58	40.01	30.00	-9.58	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0336	1.488	3800	2.966E-05	7.641E-08	1.475E 06	1.981E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.953	3.136	26.193	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.20	.139	716.22	3.014E-03	.1521	3.880E-03	.1958	4.531E-03	.2287	3.534E-03	.1784
7.77	.150	763.80	4.229E-03	.2135	5.587E-03	.2821	6.656E-03	.3360	5.036E-03	.2542
8.33	.161	782.38	4.760E-03	.2403	6.363E-03	.3212	7.650E-03	.3862	5.708E-03	.2881
8.89	.172	783.53	4.794E-03	.2420	6.413E-03	.3237	7.715E-03	.3895	5.751E-03	.2903
9.45	.183	788.24	4.935E-03	.2491	6.623E-03	.3343	7.988E-03	.4032	5.932E-03	.2994
10.00	.193	793.97	5.111E-03	.2580	6.885E-03	.3476	8.331E-03	.4206	6.157E-03	.3108
10.54	.204	793.44	5.095E-03	.2572	6.861E-03	.3463	8.299E-03	.4189	6.136E-03	.3098
11.08	.214	811.42	5.673E-03	.2864	7.739E-03	.3907	9.461E-03	.4776	6.885E-03	.3476
11.62	.225	815.20	5.798E-03	.2927	7.931E-03	.4004	9.720E-03	.4907	7.048E-03	.3558
12.15	.235	818.28	5.901E-03	.2979	8.091E-03	.4084	9.935E-03	.5015	7.182E-03	.3626
12.68	.245	811.46	5.675E-03	.2865	7.741E-03	.3908	9.464E-03	.4778	6.887E-03	.3476
13.20	.255	814.81	5.785E-03	.2920	7.912E-03	.3994	9.693E-03	.4893	7.031E-03	.3549
13.72	.265	824.62	6.114E-03	.3087	8.426E-03	.4254	1.039E-02	.5245	7.464E-03	.3768
14.23	.275	828.55	6.249E-03	.3154	8.639E-03	.4361	1.068E-02	.5392	7.643E-03	.3858
14.74	.285	830.80	6.326E-03	.3194	8.762E-03	.4423	1.085E-02	.5478	7.746E-03	.3910
15.24	.295	821.72	6.016E-03	.3037	8.272E-03	.4176	1.018E-02	.5139	7.335E-03	.3703
15.74	.304	820.86	5.987E-03	.3023	8.227E-03	.4153	1.012E-02	.5108	7.297E-03	.3684
16.23	.314	830.87	6.329E-03	.3195	8.766E-03	.4425	1.086E-02	.5481	7.750E-03	.3912
16.72	.323	832.85	6.398E-03	.3230	8.876E-03	.4481	1.101E-02	.5557	7.841E-03	.3958
17.20	.333	832.61	6.389E-03	.3225	8.863E-03	.4474	1.099E-02	.5548	7.830E-03	.3953
17.68	.342	830.80	6.327E-03	.3194	8.763E-03	.4424	1.085E-02	.5478	7.747E-03	.3911

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
4	7	TILE INSERT	0.111	.010	.020	7.040E 05	2.458E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	317.1	1298	39.58	40.01	30.00	-9.58	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0336	1.488	3800	2.566E-05	7.641E-08	1.475E 06	1.981E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.953	3.136	26.193	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
18.15	.351	813.32	5.737E-03	.2896	7.837E-03	.3956	9.592E-03	.4842	6.968E-03	.3517
18.62	.360	828.66	6.253E-03	.3157	8.645E-03	.4364	1.069E-02	.5397	7.648E-03	.3861
19.09	.369	830.23	6.307E-03	.3184	8.732E-03	.4408	1.081E-02	.5457	7.721E-03	.3897
19.55	.378	830.77	6.326E-03	.3193	8.761E-03	.4423	1.085E-02	.5477	7.745E-03	.3910
20.00	.387	825.57	6.148E-03	.3103	8.479E-03	.4280	1.046E-02	.5281	7.509E-03	.3790
20.45	.395	812.61	5.714E-03	.2884	7.801E-03	.3938	9.544E-03	.4818	6.937E-03	.3502
20.90	.404	820.07	5.962E-03	.3009	8.186E-03	.4132	1.006E-02	.5080	7.263E-03	.3666
21.34	.413	829.63	6.287E-03	.3174	8.699E-03	.4391	1.076E-02	.5434	7.693E-03	.3884
21.78	.421	832.01	6.369E-03	.3215	8.830E-03	.4458	1.094E-02	.5525	7.803E-03	.3939
22.21	.429	830.80	6.328E-03	.3194	8.764E-03	.4424	1.085E-02	.5479	7.748E-03	.3911
22.63	.438	830.27	6.309E-03	.3185	8.735E-03	.4409	1.081E-02	.5458	7.723E-03	.3899
23.06	.446	821.46	6.009E-03	.3033	8.260E-03	.4170	1.016E-02	.5131	7.325E-03	.3698
23.47	.454	816.82	5.854E-03	.2955	8.018E-03	.4047	9.836E-03	.4965	7.121E-03	.3595
23.88	.462	829.37	6.279E-03	.3170	8.686E-03	.4385	1.075E-02	.5425	7.682E-03	.3878
24.29	.470	829.37	6.279E-03	.3170	8.686E-03	.4385	1.075E-02	.5425	7.682E-03	.3878
24.69	.477	826.16	6.169E-03	.3114	8.511E-03	.4297	1.051E-02	.5304	7.536E-03	.3804
25.09	.485	825.32	6.140E-03	.3099	8.466E-03	.4274	1.044E-02	.5272	7.498E-03	.3785
25.49	.493	820.90	5.990E-03	.3024	8.231E-03	.4155	1.012E-02	.5111	7.300E-03	.3685
25.87	.500	783.48	4.795E-03	.2420	6.413E-03	.3237	7.716E-03	.3895	5.752E-03	.2903

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
4	7	TILE INSERT	0.111	.010	.020	7.040E 05	2.458E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	317.1	1298	39.58	40.01	30.00	-9.58	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0336	1.488	3800	2.966E-05	7.641E-08	1.475E 06	1.981E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.953	3.136	26.193	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.375	545.29	545.20	543.79	543.38	543.06	542.88	0	0	534.18	535.97
2.372	548.36	548.10	546.05	545.11	544.20	543.62	0	0	535.47	537.62
3.369	550.59	550.24	547.90	546.61	545.23	544.32	0	0	536.77	539.09
4.365	552.42	552.02	549.45	547.93	546.17	545.00	0	0	538.15	540.65
5.362	554.09	553.56	550.85	549.10	547.05	545.67	0	0	539.58	542.16
6.358	555.57	555.02	552.13	550.21	547.87	546.29	0	0	540.96	543.67
7.355	556.97	556.33	553.33	551.29	548.69	546.90	0	0	542.29	545.14
8.351	558.24	557.57	554.46	552.31	549.48	547.49	0	0	543.63	546.52
9.348	559.49	558.76	555.57	553.27	550.26	548.13	0	0	545.01	547.98
10.345	560.65	559.87	556.62	554.23	551.02	548.75	0	0	546.34	549.35
11.341	561.75	560.97	557.63	555.13	551.78	549.36	0	0	547.67	550.68
12.338	562.82	561.98	558.59	556.03	552.54	549.94	0	0	549.04	551.97
13.334	563.83	562.99	559.58	556.94	553.30	550.59	0	0	550.33	553.43
14.331	564.84	563.98	560.48	557.81	554.06	551.23	0	0	551.61	554.71
15.327	565.79	564.90	561.40	558.65	554.78	551.84	0	0	552.99	555.99
16.324	566.75	565.82	562.27	559.49	555.54	552.45	0	0	554.27	557.27
17.321	567.67	566.72	563.14	560.30	556.27	553.10	0	0	555.55	558.64
18.317	568.56	567.58	564.00	561.11	556.99	553.74	0	0	556.79	559.92
19.314	569.42	568.47	564.81	561.89	557.72	554.38	0	0	558.07	561.15
20.310	570.26	569.28	565.62	562.68	558.45	555.05	0	0	559.39	562.43
21.307	571.12	570.11	566.43	563.46	559.17	555.69	0	0	560.67	563.70

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
4	7	TILE INSERT	0.111	.010	.020	7.040E 05	2.458E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	317.1	1298	39.58	40.01	30.00	-9.58	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0336	1.488	3800	2.966E-05	7.641E-08	1.475E 06	1.981E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.953	3.136	26.193	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.303	571.92	570.92	567.24	564.24	559.87	556.33	0	0	561.90	564.98
23.300	572.73	571.72	568.01	564.99	560.59	556.99	0	0	563.13	566.21
24.297	573.53	572.50	568.82	565.74	561.29	557.63	0	0	564.36	567.40
25.293	574.30	573.27	569.57	566.49	562.01	558.30	0	0	565.60	568.67
26.290	575.08	574.02	570.34	567.24	562.70	558.97	0	0	566.91	569.90
27.286	575.85	574.82	571.06	567.98	563.43	559.61	0	0	568.14	571.13
28.283	576.59	575.56	571.84	568.70	564.12	560.30	0	0	569.33	572.44
29.279	577.37	576.31	572.56	569.42	564.81	560.97	0	0	570.69	573.58
30.276	578.08	577.05	573.27	570.14	565.53	561.63	0	0	571.83	574.81
31.273	578.82	577.77	573.99	570.86	566.23	562.30	0	0	573.10	575.99
32.269	579.56	578.48	574.73	571.58	566.92	562.96	0	0	574.28	577.26
33.266	580.28	579.22	575.45	572.27	567.58	563.66	0	0	575.46	578.40

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
4	7	TILE INSERT	0.111	.010	.020	7.040E 05	2.458E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	317.1	1298	39.58	40.01	30.00	-9.58	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0336	1.488	3800	2.966E-05	7.641E-08	1.475E 06	1.981E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.953	3.136	26.193	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
9.065	1
14.537	2
19.922	3

NASA/RI OH69
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AEDC (ARO, INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.3[illegible] FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
5	7	TILE INSERT	0.111	.010	.020	7.099E 05	2.479E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREDEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.7	1297	29.70	29.99	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.500	3800	2.991E-05	7.640E-08	1.487E 06	1.989E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.505	3.141	26.742	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.61	.089	660.52	1.807E-03	.0909	2.270E-03	.1141	2.603E-03	.1308	2.200E-03	.1106
5.10	.099	594.13	6.894E-04	.0347	8.454E-04	.0425	9.532E-04	.0479	8.223E-04	.0413
7.49	.145	687.35	2.365E-03	.1189	3.003E-03	.1510	3.472E-03	.1746	2.906E-03	.1461
7.96	.154	706.66	2.794E-03	.1405	3.580E-03	.1800	4.167E-03	.2095	3.460E-03	.1739
8.43	.163	729.97	3.346E-03	.1682	4.338E-03	.2181	5.092E-03	.2560	4.184E-03	.2104
8.90	.172	729.97	3.346E-03	.1682	4.338E-03	.2181	5.092E-03	.2560	4.184E-03	.2104
9.36	.181	729.13	3.326E-03	.1672	4.309E-03	.2167	5.058E-03	.2543	4.157E-03	.2090
9.82	.190	731.48	3.383E-03	.1701	4.390E-03	.2207	5.156E-03	.2592	4.234E-03	.2128
10.28	.199	728.71	3.316E-03	.1667	4.295E-03	.2160	5.040E-03	.2534	4.144E-03	.2083
10.74	.208	748.02	3.801E-03	.1911	4.976E-03	.2502	5.886E-03	.2959	4.793E-03	.2410
11.19	.216	754.46	3.970E-03	.1996	5.217E-03	.2623	6.188E-03	.3111	5.022E-03	.2525
11.65	.225	759.52	4.106E-03	.2064	5.411E-03	.2720	6.433E-03	.3234	5.205E-03	.2617
12.10	.234	763.15	4.204E-03	.2114	5.553E-03	.2792	6.613E-03	.3325	5.340E-03	.2685
12.54	.242	762.99	4.200E-03	.2112	5.546E-03	.2789	6.605E-03	.3321	5.334E-03	.2682
12.99	.251	753.48	3.945E-03	.1983	5.180E-03	.2604	6.142E-03	.3088	4.986E-03	.2507
13.43	.260	771.85	4.446E-03	.2235	5.903E-03	.2968	7.060E-03	.3550	5.673E-03	.2852
13.27	.268	777.28	4.601E-03	.2313	6.130E-03	.3082	7.351E-03	.3696	5.887E-03	.2960
14.30	.277	779.20	4.656E-03	.2341	6.211E-03	.3123	7.456E-03	.3748	5.964E-03	.2998
14.74	.285	782.62	4.756E-03	.2391	6.359E-03	.3197	7.647E-03	.3844	6.104E-03	.3069
15.17	.293	779.59	4.668E-03	.2347	6.228E-03	.3131	7.478E-03	.3759	5.980E-03	.3006
15.60	.302	765.52	4.270E-03	.2147	5.647E-03	.2839	6.733E-03	.3385	5.430E-03	.2730

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
5	7	TILE INSERT	0.111	.010	.020	7.099E 05	2.479E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.7	1297	29.70	29.99	30.00	.30	30.00	0

T-INF (DEG R)	P-INF (PSIA)	Q-INF (PSIA)	V-INF (FT/SEC)	RHO-INF (SLUG/FT3)	MU-INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.500	3800	2.991E-05	7.640E-08	1.487E 06	1.989E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.505	3.141	26.742	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
16.03	.310	785.27	4.835E-03	.2431	6.475E-03	.3255	7.797E-03	.3920	6.213E-03	.3124
16.45	.318	787.04	4.887E-03	.2457	6.553E-03	.3295	7.899E-03	.3971	6.287E-03	.3161
16.87	.326	789.15	4.951E-03	.2489	6.648E-03	.3342	8.023E-03	.4033	6.377E-03	.3206
17.29	.334	789.79	4.970E-03	.2499	6.677E-03	.3357	8.060E-03	.4052	6.404E-03	.3220
17.71	.342	788.01	4.917E-03	.2472	6.597E-03	.3316	7.956E-03	.4000	6.328E-03	.3182
18.12	.350	770.88	4.419E-03	.2222	5.864E-03	.2948	7.010E-03	.3524	5.636E-03	.2833
18.54	.358	787.96	4.915E-03	.2471	6.595E-03	.3315	7.953E-03	.3998	6.327E-03	.3181
18.95	.366	788.14	4.921E-03	.2474	6.603E-03	.3320	7.964E-03	.4004	6.335E-03	.3185
19.35	.374	788.65	4.936E-03	.2482	6.626E-03	.3331	7.994E-03	.4019	6.356E-03	.3195
19.76	.382	785.17	4.832E-03	.2429	6.471E-03	.3253	7.793E-03	.3918	6.210E-03	.3122
20.16	.390	784.94	4.825E-03	.2426	6.461E-03	.3248	7.779E-03	.3911	6.200E-03	.3117
20.56	.397	756.36	4.022E-03	.2022	5.290E-03	.2660	6.281E-03	.3158	5.091E-03	.2560
20.96	.405	785.59	4.845E-03	.2436	6.490E-03	.3263	7.817E-03	.3930	6.228E-03	.3131
21.35	.413	789.33	4.957E-03	.2492	6.657E-03	.3347	8.034E-03	.4039	6.385E-03	.3210
21.75	.420	791.87	5.034E-03	.2531	6.772E-03	.3405	8.185E-03	.4115	6.494E-03	.3265
22.14	.428	792.59	5.056E-03	.2542	6.805E-03	.3421	8.228E-03	.4137	6.525E-03	.3281
22.52	.435	789.15	4.952E-03	.2490	6.649E-03	.3343	8.024E-03	.4034	6.378E-03	.3207
22.91	.443	788.14	4.922E-03	.2474	6.604E-03	.3320	7.965E-03	.4004	6.335E-03	.3185
23.29	.450	768.22	4.346E-03	.2185	5.757E-03	.2894	6.873E-03	.3455	5.534E-03	.2782
23.67	.458	788.97	4.947E-03	.2487	6.641E-03	.3339	8.013E-03	.4029	6.370E-03	.3203
24.05	.465	788.65	4.937E-03	.2482	6.627E-03	.3332	7.995E-03	.4019	6.357E-03	.3196
24.42	.472	786.80	4.882E-03	.2454	6.544E-03	.3290	7.888E-03	.3965	6.279E-03	.3157

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
5	7	TILE INSERT	0.111	.010	.020	7.099E 05	2.479E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.7	1297	29.70	29.99	30.00	.30	30.00	10

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.500	3800	2.991E-05	7.640E-08	1.487E 06	1.989E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.505	3.141	26.742	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.80	.479	783.19	4.774E-03	.2400	6.385E-03	.3210	7.681E-03	.3862	6.129E-03	.3081
25.17	.486	778.81	4.646E-03	.2336	6.196E-03	.3115	7.437E-03	.3739	5.950E-03	.2992
25.53	.494	772.01	4.452E-03	.2238	5.912E-03	.2972	7.071E-03	.3555	5.681E-03	.2856
25.90	.501	728.92	3.322E-03	.1670	4.304E-03	.2164	5.051E-03	.2539	4.152E-03	.2088

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
5	7	TILE INSERT	0.111	.010	.020	7.099E 05	2.479E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.7	1297	29.70	29.99	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.500	3800	2.991E-05	7.640E-08	1.487E 06	1.989E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.505	3.141	26.742	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.377	541.97	541.44	539.65	539.09	538.64	538.35	0	0	530.19	530.82
2.374	545.08	544.32	541.79	540.65	539.59	538.97	0	0	530.60	531.27
3.371	547.40	546.46	543.56	542.03	540.47	539.53	0	0	531.09	531.85
4.367	549.33	548.31	545.11	543.26	541.29	540.09	0	0	531.54	532.34
5.364	551.05	549.91	546.52	544.44	542.09	540.62	0	0	532.12	532.88
6.360	552.60	551.40	547.84	545.52	542.85	541.15	0	0	532.52	533.51
7.357	554.06	552.77	549.04	546.58	543.62	541.71	0	0	533.02	533.95
8.353	555.40	554.03	550.18	547.57	544.35	542.24	0	0	533.60	534.49
9.350	556.65	555.25	551.29	548.54	545.11	542.76	0	0	534.00	535.03
10.347	557.84	556.38	552.34	549.51	545.85	543.32	0	0	534.49	535.52
11.343	558.97	557.49	553.36	550.44	546.58	543.88	0	0	534.98	536.05
12.340	560.04	558.50	554.35	551.32	547.28	544.47	0	0	535.47	536.55
13.336	561.08	559.52	555.28	552.16	548.01	545.00	0	0	535.97	536.99
14.333	562.07	560.50	556.21	553.04	548.75	545.55	0	0	536.46	537.53
15.329	563.05	561.43	557.11	553.85	549.45	546.17	0	0	536.90	538.02
16.326	563.98	562.36	558.01	554.70	550.15	546.75	0	0	537.39	538.51
17.323	564.87	563.25	558.85	555.48	550.85	547.34	0	0	537.88	539.00
18.319	565.77	564.12	559.66	556.27	551.55	547.96	0	0	538.33	539.40
19.316	566.60	564.96	560.50	557.05	552.28	548.57	0	0	538.82	539.98
20.312	567.47	565.79	561.32	557.84	552.95	549.18	0	0	539.27	540.43
21.309	568.30	566.60	562.13	558.59	553.65	549.80	0	0	539.80	540.96

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
5	7	TILE INSERT	0.111	.010	.020	7.099E 05	2.479E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.7	1297	29.70	29.99	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.500	3800	2.991E-05	7.640E-08	1.487E 06	1.989E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.505	3.141	26.742	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.305	569.11	567.41	562.88	559.35	554.35	550.41	0	0	540.25	541.45
23.302	569.91	568.22	563.66	560.10	555.05	551.05	0	0	540.69	541.85
24.299	570.69	568.99	564.41	560.82	555.74	551.64	0	0	541.18	542.29
25.295	571.46	569.74	565.16	561.55	556.41	552.31	0	0	541.67	542.83
26.292	572.21	570.52	565.91	562.27	557.08	552.92	0	0	542.16	543.27
27.288	572.99	571.23	566.66	562.99	557.78	553.56	0	0	542.61	543.81
28.285	573.73	571.98	567.38	563.69	558.47	554.17	0	0	543.05	544.21
29.281	574.45	572.73	568.13	564.41	559.14	554.84	0	0	543.58	544.74
30.278	575.16	573.42	568.82	565.10	559.84	555.48	0	0	544.07	545.18
31.275	575.88	574.13	569.54	565.79	560.48	556.09	0	0	544.47	545.72

NASA/RI OH69
V418-524

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
5	7	TILE INSERT	0.111	.010	.020	7.059E 05	2.479E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.7	1297	29.70	29.99	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.500	3800	2.991E-05	7.640E-08	1.487E 06	1.989E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
28.505	3.141	26.742	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.199	1
11.183	2
16.628	3
25.569	4

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
6	7	TILE INSERT	0.111	.010	.020	4.846E 05	1.692E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	210.2	1271	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.4	.0226	.998	3760	2.031E-05	7.520E-08	1.015E 06	1.616E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
34.389	3.150	32.621	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.61	.089	651.20	1.539E-03	.0952	1.935E-03	.1198	2.222E-03	.1375	1.875E-03	.1160
5.10	.099	584.28	5.142E-04	.0318	6.310E-04	.0390	7.118E-04	.0440	6.137E-04	.0380
7.49	.145	627.22	1.140E-03	.0705	1.420E-03	.0879	1.619E-03	.1002	1.378E-03	.0853
7.96	.154	638.94	1.330E-03	.0823	1.665E-03	.1030	1.904E-03	.1178	1.614E-03	.0999
8.43	.163	649.65	1.512E-03	.0935	1.900E-03	.1176	2.181E-03	.1349	1.841E-03	.1139
8.90	.172	651.70	1.547E-03	.0957	1.947E-03	.1205	2.235E-03	.1383	1.886E-03	.1167
9.36	.181	654.46	1.596E-03	.0987	2.010E-03	.1244	2.310E-03	.1429	1.947E-03	.1205
9.82	.190	650.64	1.529E-03	.0946	1.923E-03	.1190	2.207E-03	.1366	1.863E-03	.1153
10.28	.199	648.35	1.489E-03	.0921	1.871E-03	.1158	2.146E-03	.1328	1.813E-03	.1122
10.74	.208	653.84	1.585E-03	.0981	1.996E-03	.1235	2.293E-03	.1419	1.934E-03	.1197
11.19	.216	665.84	1.806E-03	.1118	2.287E-03	.1415	2.637E-03	.1632	2.214E-03	.1370
11.65	.225	671.70	1.920E-03	.1188	2.437E-03	.1508	2.816E-03	.1742	2.358E-03	.1459
12.10	.234	676.71	2.019E-03	.1249	2.568E-03	.1589	2.972E-03	.1839	2.484E-03	.1537
12.54	.242	679.43	2.073E-03	.1283	2.640E-03	.1634	3.059E-03	.1893	2.554E-03	.1580
12.99	.251	671.99	1.926E-03	.1192	2.444E-03	.1512	2.825E-03	.1748	2.365E-03	.1463
13.43	.260	692.08	2.332E-03	.1443	2.988E-03	.1849	3.477E-03	.2151	2.887E-03	.1786
13.87	.268	703.00	2.564E-03	.1586	3.303E-03	.2043	3.859E-03	.2387	3.188E-03	.1973
14.30	.277	709.24	2.700E-03	.1670	3.489E-03	.2159	4.086E-03	.2528	3.367E-03	.2083
14.74	.285	713.51	2.794E-03	.1729	3.619E-03	.2239	4.246E-03	.2627	3.491E-03	.2160
15.17	.293	717.33	2.880E-03	.1782	3.737E-03	.2313	4.392E-03	.2717	3.604E-03	.2230
15.60	.302	703.74	2.580E-03	.1596	3.324E-03	.2057	3.885E-03	.2404	3.209E-03	.1986

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
6	7	TILE INSERT	0.111	.010	.020	4.846E 05	1.692E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	210.2	1271	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.4	.0226	.998	3760	2.031E-05	7.520E-08	1.015E 06	1.616E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
34.389	3.150	32.621	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
16.03	.310	727.02	3.101E-03	.1919	4.047E-03	.2504	4.774E-03	.2954	3.899E-03	.2412
16.45	.318	733.35	3.250E-03	.2011	4.256E-03	.2633	5.035E-03	.3116	4.098E-03	.2536
16.87	.326	738.02	3.361E-03	.2080	4.414E-03	.2731	5.233E-03	.3238	4.249E-03	.2629
17.29	.334	740.79	3.429E-03	.2121	4.509E-03	.2790	5.353E-03	.3312	4.339E-03	.2685
17.71	.342	741.15	3.437E-03	.2127	4.522E-03	.2798	5.369E-03	.3322	4.351E-03	.2692
18.12	.350	726.91	3.099E-03	.1917	4.043E-03	.2502	4.770E-03	.2952	3.896E-03	.2411
18.54	.358	743.70	3.500E-03	.2165	4.611E-03	.2853	5.481E-03	.3391	4.436E-03	.2745
18.95	.366	744.52	3.520E-03	.2178	4.640E-03	.2871	5.517E-03	.3414	4.463E-03	.2762
19.35	.374	743.45	3.493E-03	.2162	4.602E-03	.2847	5.470E-03	.3384	4.427E-03	.2739
19.76	.382	743.32	3.490E-03	.2160	4.598E-03	.2845	5.464E-03	.3381	4.423E-03	.2737
20.16	.390	742.81	3.478E-03	.2152	4.580E-03	.2834	5.442E-03	.3367	4.406E-03	.2726
20.56	.397	721.11	2.966E-03	.1835	3.857E-03	.2386	4.539E-03	.2809	3.718E-03	.2301
20.96	.405	742.69	3.475E-03	.2150	4.576E-03	.2831	5.436E-03	.3364	4.402E-03	.2724
21.35	.413	748.30	3.614E-03	.2236	4.774E-03	.2954	5.688E-03	.3519	4.591E-03	.2841
21.75	.420	752.31	3.714E-03	.2298	4.919E-03	.3044	5.872E-03	.3633	4.729E-03	.2926
22.14	.428	751.15	3.685E-03	.2280	4.877E-03	.3018	5.818E-03	.3600	4.689E-03	.2901
22.52	.435	750.03	3.657E-03	.2263	4.837E-03	.2993	5.767E-03	.3568	4.650E-03	.2877
22.91	.443	749.03	3.632E-03	.2247	4.801E-03	.2970	5.721E-03	.3540	4.616E-03	.2856
23.29	.450	729.29	3.155E-03	.1952	4.122E-03	.2550	4.868E-03	.3012	3.971E-03	.2457
23.67	.458	747.97	3.605E-03	.2231	4.762E-03	.2947	5.673E-03	.3510	4.580E-03	.2834
24.05	.465	750.31	3.664E-03	.2267	4.847E-03	.2999	5.780E-03	.3576	4.660E-03	.2883
24.42	.472	747.23	3.587E-03	.2219	4.736E-03	.2931	5.640E-03	.3489	4.555E-03	.2818

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
6	7	TILE INSERT	0.111	.010	.020	4.846E 05	1.692E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	210.2	1271	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.4	.0226	.998	3760	2.031E-05	7.520E-08	1.015E 06	1.616E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
34.389	3.150	32.621	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.80	.479	745.12	3.535E-03	.2187	4.661E-03	.2884	5.545E-03	.3431	4.484E-03	.2774
25.17	.486	742.62	3.474E-03	.2149	4.574E-03	.2830	5.434E-03	.3362	4.401E-03	.2723
25.53	.494	738.71	3.379E-03	.2091	4.438E-03	.2746	5.264E-03	.3257	4.272E-03	.2643
25.90	.501	705.16	2.611E-03	.1616	3.367E-03	.2084	3.938E-03	.2436	3.250E-03	.2011

NASA/RI OH69
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
6	7	TILE INSERT	0.111	.010	.020	4.846E 05	1.692E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	210.2	1271	29.81	30.00	30.00	.19	30.00	0

T-INF (DEG R)	P-INF (PSIA)	Q-INF (PSIA)	V-INF (FT/SEC)	RHO-INF (SLUG/FT3)	MU-INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.4	.0226	.998	3760	2.031E-05	7.520E-08	1.015E 06	1.616E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
34.389	3.150	32.621	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.381	537.76	537.37	535.90	535.48	535.31	534.89	0	0	527.14	527.59
2.378	540.23	539.67	537.58	536.72	535.96	535.37	0	0	527.41	527.86
3.375	542.06	541.38	539.00	537.82	536.64	535.84	0	0	527.64	528.04
4.371	543.59	542.82	540.23	538.82	537.32	536.31	0	0	528.00	528.49
5.368	544.97	544.12	541.35	539.73	537.94	536.72	0	0	528.22	528.76
6.364	546.20	545.26	542.35	540.62	538.55	537.17	0	0	528.54	529.03
7.361	547.34	546.34	543.35	541.41	539.14	537.58	0	0	528.85	529.48
8.357	548.39	547.34	544.26	542.21	539.73	538.02	0	0	529.21	529.66
9.354	549.39	548.31	545.11	543.00	540.32	538.44	0	0	529.43	529.93
10.351	550.35	549.21	545.96	543.76	540.91	538.88	0	0	529.66	530.33
11.347	551.23	550.09	546.75	544.47	541.47	539.32	0	0	529.93	530.55
12.344	552.10	550.94	547.55	545.17	542.06	539.76	0	0	530.19	530.82
13.340	552.92	551.72	548.31	545.88	542.65	540.23	0	0	530.55	531.14
14.337	553.71	552.51	549.04	546.55	543.21	540.71	0	0	530.78	531.45
15.333	554.49	553.24	549.74	547.19	543.79	541.15	0	0	531.05	531.67
16.330	555.22	553.97	550.47	547.87	544.32	541.62	0	0	531.36	532.08
17.327	555.95	554.70	551.14	548.51	544.91	542.06	0	0	531.63	532.30
18.323	556.65	555.40	551.81	549.15	545.47	542.56	0	0	531.90	532.57
19.320	557.34	556.06	552.45	549.77	546.02	543.03	0	0	532.21	532.84
20.316	558.01	556.70	553.10	550.38	546.55	543.53	0	0	532.43	533.15
21.313	558.68	557.37	553.74	550.97	547.14	544.03	0	0	532.75	533.42

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
6	7	TILE INSERT	0.111	.010	.020	4.846E 05	1.692E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	210.2	1271	29.81	30.00	30.00	.19	30.00	0

T-INF (DEG R)	P-INF (PSIA)	Q-INF (PSIA)	V-INF (FT/SEC)	RHO-INF (SLUG/FT3)	MU-INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.4	.0226	.998	3760	2.031E-05	7.520E-08	1.015E 06	1.616E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
34.389	3.150	32.621	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.309	559.35	558.01	554.38	551.58	547.66	544.50	0	0	533.06	533.64
23.306	559.95	558.65	554.96	552.16	548.22	545.03	0	0	533.24	533.95
24.303	560.59	559.26	555.57	552.75	548.77	545.52	0	0	533.55	534.22
25.299	561.20	559.87	556.18	553.33	549.30	546.02	0	0	533.82	534.49
26.296	561.81	560.48	556.76	553.88	549.86	546.49	0	0	534.09	534.71
27.292	562.41	561.05	557.34	554.46	550.41	546.99	0	0	534.36	535.07
28.289	562.99	561.63	557.92	555.05	550.94	547.49	0	0	534.63	535.34
29.285	563.57	562.21	558.50	555.60	551.49	548.07	0	0	534.94	535.61
30.282	564.15	562.82	559.08	556.15	552.02	548.54	0	0	535.12	535.83
31.279	564.76	563.37	559.63	556.70	552.54	549.04	0	0	535.43	536.10
32.275	565.30	563.98	560.21	557.26	553.07	549.53	0	0	535.70	536.41
33.272	565.88	564.50	560.77	557.81	553.62	550.06	0	0	535.97	536.59
34.268	566.43	565.04	561.29	558.33	554.14	550.56	0	0	536.19	536.90
35.265	566.98	565.59	561.84	558.88	554.67	551.05	0	0	536.50	537.17
36.261	567.55	566.14	562.41	559.43	555.19	551.55	0	0	536.72	537.44
37.258	568.07	566.69	562.94	559.95	555.72	552.05	0	0	537.04	537.71
38.255	568.62	567.24	563.48	560.50	556.24	552.57	0	0	537.30	538.02
39.251	569.14	567.78	564.03	561.03	556.76	553.12	0	0	537.53	538.24

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
6	7	TILE INSERT	0.111	.010	.020	4.846E 05	1.692E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	210.2	1271	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.4	.0226	.998	3760	2.031E-05	7.520E-08	1.015E 06	1.616E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
34.389	3.150	32.621	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.960	1
14.794	2
21.765	3
32.248	4

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
7	7	TILE INSERT	0.111	.010	.020	4.783E 05	1.670E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.5	1279	39.72	40.00	30.00	-9.72	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0225	.994	3772	2.011E-05	7.569E-08	1.002E 06	1.615E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.366	3.250	23.541	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
6.63	.128	567.33	3.716E-04	.0230	4.530E-04	.0280	5.087E-04	.0315	4.215E-04	.0261
7.20	.139	654.14	1.879E-03	.1163	2.363E-03	.1463	2.711E-03	.1679	2.172E-03	.1345
7.77	.150	694.84	2.810E-03	.1740	3.597E-03	.2227	4.183E-03	.2590	3.284E-03	.2033
8.33	.161	703.58	3.025E-03	.1873	3.889E-03	.2408	4.537E-03	.2809	3.544E-03	.2194
8.89	.172	706.49	3.099E-03	.1918	3.989E-03	.2470	4.659E-03	.2884	3.634E-03	.2250
9.45	.183	703.36	3.020E-03	.1869	3.882E-03	.2403	4.528E-03	.2803	3.538E-03	.2190
10.00	.193	702.84	3.007E-03	.1861	3.864E-03	.2392	4.507E-03	.2790	3.522E-03	.2180
10.54	.204	706.11	3.089E-03	.1912	3.976E-03	.2462	4.643E-03	.2875	3.622E-03	.2242
11.08	.214	725.04	3.581E-03	.2217	4.656E-03	.2882	5.477E-03	.3391	4.224E-03	.2615
11.62	.225	731.20	3.748E-03	.2320	4.888E-03	.3026	5.766E-03	.3570	4.429E-03	.2742
12.15	.235	736.31	3.888E-03	.2407	5.086E-03	.3149	6.013E-03	.3722	4.603E-03	.2850
12.68	.245	735.97	3.879E-03	.2401	5.073E-03	.3141	5.997E-03	.3712	4.592E-03	.2843
13.20	.255	738.62	3.953E-03	.2447	5.178E-03	.3205	6.127E-03	.3793	4.684E-03	.2899
13.72	.265	751.07	4.308E-03	.2667	5.684E-03	.3519	6.765E-03	.4188	5.126E-03	.3174
14.23	.275	754.18	4.399E-03	.2723	5.815E-03	.3600	6.931E-03	.4291	5.241E-03	.3244
14.74	.285	759.52	4.558E-03	.2822	6.046E-03	.3743	7.225E-03	.4473	5.441E-03	.3368
15.24	.295	757.28	4.491E-03	.2780	5.948E-03	.3682	7.100E-03	.4396	5.356E-03	.3316
15.74	.304	746.10	4.164E-03	.2578	5.479E-03	.3392	6.505E-03	.4027	4.947E-03	.3063
16.23	.314	761.51	4.618E-03	.2859	6.133E-03	.3797	7.336E-03	.4542	5.517E-03	.3415
16.72	.323	764.57	4.711E-03	.2916	6.268E-03	.3881	7.510E-03	.4649	5.634E-03	.3488
17.20	.333	766.51	4.770E-03	.2953	6.356E-03	.3935	7.622E-03	.4719	5.710E-03	.3535

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
7	7	TILE INSERT	0.111	.010	.020	4.783E 05	1.670E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.5	1279	39.72	40.00	30.00	-9.72	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0225	.994	3772	2.011E-05	7.569E-08	1.002E 06	1.615E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
25.366	3.250	23.541	500

X (IN)	X/L	TW (DEG R)	HT(T)	HT(T)/HREF	HT(.91T)	HT(.91T)/HREF	HT(.85T)	HT(.85T)/HREF	HT(.934T)	HT(.934T)/HREF
17.68	.342	765.22	4.731E-03	.2929	6.298E-03	.3899	7.548E-03	.4673	5.659E-03	.3504
18.15	.351	750.71	4.298E-03	.2661	5.670E-03	.3510	6.747E-03	.4177	5.114E-03	.3166
18.62	.360	762.48	4.646E-03	.2877	5.176E-03	.3823	7.392E-03	.4576	5.554E-03	.3438
19.09	.369	765.22	4.731E-03	.2929	6.298E-03	.3899	7.548E-03	.4673	5.660E-03	.3504
19.55	.378	766.14	4.759E-03	.2946	6.339E-03	.3925	7.601E-03	.4706	5.695E-03	.3526
20.00	.387	762.70	4.654E-03	.2881	6.186E-03	.3830	7.404E-03	.4584	5.563E-03	.3444
20.45	.395	758.31	4.522E-03	.2800	5.994E-03	.3710	7.158E-03	.4431	5.396E-03	.3340
20.90	.404	751.13	4.310E-03	.2668	5.688E-03	.3521	6.769E-03	.4191	5.130E-03	.3176
21.34	.413	766.84	4.781E-03	.2960	6.371E-03	.3944	7.642E-03	.4731	5.723E-03	.3543
21.78	.421	769.44	4.862E-03	.3010	6.490E-03	.4018	7.795E-03	.4826	5.825E-03	.3606
22.21	.429	769.28	4.857E-03	.3007	6.483E-03	.4013	7.786E-03	.4820	5.819E-03	.3603
22.63	.438	767.72	4.808E-03	.2977	6.411E-03	.3969	7.694E-03	.4763	5.758E-03	.3564
23.06	.446	763.53	4.680E-03	.2897	6.223E-03	.3853	7.452E-03	.4613	5.595E-03	.3464
23.47	.454	751.52	4.322E-03	.2676	5.705E-03	.3532	6.791E-03	.4204	5.144E-03	.3185
23.88	.462	766.97	4.785E-03	.2963	6.378E-03	.3948	7.651E-03	.4736	5.729E-03	.3546
24.29	.470	768.44	4.831E-03	.2991	6.444E-03	.3990	7.736E-03	.4789	5.786E-03	.3582
24.69	.477	764.70	4.716E-03	.2920	6.276E-03	.3885	7.520E-03	.4655	5.641E-03	.3492
25.09	.485	763.14	4.669E-03	.2890	6.207E-03	.3842	7.431E-03	.4600	5.580E-03	.3455
25.49	.493	757.68	4.504E-03	.2788	5.967E-03	.3694	7.125E-03	.4411	5.373E-03	.3326
25.87	.500	728.81	3.684E-03	.2281	4.800E-03	.2971	5.656E-03	.3501	4.351E-03	.2694

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
7	7	TILE INSERT	0.111	.010	.020	4.783E 05	1.670E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.5	1279	39.72	40.00	30.00	-9.72	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0225	.994	3772	2.011E-05	7.569E-08	1.002E 06	1.615E-02	80

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.366	3.250	23.541	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.426	540.85	540.82	539.59	539.29	539.14	538.82	0	0	528.49	529.61
2.422	543.23	543.09	541.41	540.66	539.97	539.44	0	0	529.30	530.55
3.419	545.00	544.79	542.85	541.82	540.79	540.00	0	0	530.15	531.49
4.415	546.49	546.20	544.09	542.85	541.50	540.53	0	0	531.05	532.48
5.412	547.81	547.43	545.20	543.82	542.24	541.09	0	0	531.94	533.46
6.408	548.98	548.60	546.23	544.73	542.88	541.59	0	0	532.79	534.36
7.405	550.09	549.65	547.16	545.55	543.53	542.09	0	0	533.69	535.34
8.402	551.14	550.64	548.07	546.37	544.17	542.56	0	0	534.58	536.19
9.398	552.10	551.58	548.98	547.16	544.79	543.06	0	0	535.47	537.22
10.395	553.04	552.49	549.83	547.93	545.41	543.59	0	0	536.41	538.11
11.391	553.94	553.33	550.62	548.69	546.02	544.06	0	0	537.22	539.00
12.388	554.78	554.17	551.40	549.39	546.61	544.53	0	0	538.11	539.89
13.384	555.63	554.96	552.19	550.09	547.22	545.05	0	0	538.95	540.83
14.381	556.41	555.74	552.89	550.79	547.81	545.49	0	0	539.89	541.67
15.378	557.20	556.50	553.62	551.46	548.42	546.05	0	0	540.74	542.70
16.374	557.92	557.23	554.35	552.13	549.01	546.55	0	0	541.58	543.54
17.371	558.68	557.95	555.02	552.77	549.59	547.02	0	0	542.43	544.47
18.367	559.37	558.65	555.72	553.44	550.18	547.52	0	0	543.36	545.23
19.364	560.07	559.35	556.38	554.09	550.76	548.07	0	0	544.25	546.16
20.360	560.74	560.01	557.05	554.70	551.35	548.57	0	0	545.05	547.00
21.357	561.43	560.68	557.66	555.34	551.93	549.13	0	0	545.94	547.94

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
7	7	TILE INSERT	0.111	.010	.020	4.783E 05	1.670E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.5	1279	39.72	40.00	30.00	-9.72	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0225	.994	3772	2.011E-05	7.569E-08	1.002E 06	1.615E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.366	3.250	23.541	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.354	562.10	561.34	558.33	555.95	552.48	549.62	0	0	546.78	548.73
23.350	562.73	561.95	558.94	556.53	553.07	550.15	0	0	547.63	549.58
24.347	563.37	562.62	559.58	557.17	553.65	550.67	0	0	548.51	550.55
25.343	564.00	563.22	560.19	557.78	554.20	551.20	0	0	549.35	551.26
26.340	564.64	563.86	560.79	558.36	554.78	551.75	0	0	550.20	552.19
27.336	565.25	564.47	561.43	558.94	555.34	552.28	0	0	551.04	552.99
28.333	565.85	565.04	562.01	559.55	555.92	552.83	0	0	551.88	553.87
29.330	566.46	565.65	562.62	560.13	556.47	553.36	0	0	552.72	554.67
30.326	567.06	566.26	563.20	560.71	557.05	553.91	0	0	553.56	555.55
31.323	567.67	566.83	563.77	561.29	557.60	554.43	0	0	554.40	556.30
32.319	568.27	567.44	564.38	561.84	558.16	554.99	0	0	555.24	557.23
33.316	568.85	568.01	564.93	562.44	558.74	555.48	0	0	556.08	558.07
34.312	569.42	568.59	565.51	562.99	559.29	556.03	0	0	556.87	558.86

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
7	7	TILE INSERT	0.111	.010	.020	4.783E 05	1.670E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.5	1279	39.72	40.00	30.00	-9.72	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0225	.994	3772	2.011E-05	7.569E-08	1.002E 06	1.615E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.366	3.250	23.541	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.734	1
15.752	2
21.906	3
26.788	4

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
8	7	TILE INSERT	0.111	.010	.020	3.575E 05	1.248E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	155.1	1274	39.80	40.01	30.00	-9.80	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0168	.740	3764	1.503E-05	7.555E-08	7.491E 05	1.393E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.900	3.136	10.139	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.20	.139	577.64	7.826E-04	.0562	9.579E-04	.0688	1.079E-03	.0774	8.900E-04	.0639
7.77	.150	616.55	1.760E-03	.1264	2.183E-03	.1568	2.482E-03	.1782	2.018E-03	.1449
8.33	.161	618.05	1.801E-03	.1293	2.235E-03	.1605	2.542E-03	.1825	2.066E-03	.1483
8.89	.172	620.11	1.858E-03	.1334	2.308E-03	.1657	2.625E-03	.1885	2.132E-03	.1531
9.45	.183	617.97	1.799E-03	.1292	2.233E-03	.1603	2.539E-03	.1823	2.063E-03	.1482
10.00	.193	615.68	1.737E-03	.1247	2.154E-03	.1547	2.448E-03	.1757	1.991E-03	.1430
10.54	.204	614.14	1.696E-03	.1217	2.101E-03	.1509	2.387E-03	.1714	1.943E-03	.1395
11.08	.214	623.85	1.962E-03	.1408	2.440E-03	.1752	2.778E-03	.1995	2.253E-03	.1617
11.62	.225	625.16	1.998E-03	.1435	2.487E-03	.1785	2.833E-03	.2034	2.296E-03	.1648
12.15	.235	627.03	2.051E-03	.1473	2.554E-03	.1834	2.911E-03	.2090	2.357E-03	.1693
12.68	.245	629.97	2.135E-03	.1533	2.661E-03	.1911	3.035E-03	.2179	2.455E-03	.1763
13.20	.255	626.34	2.032E-03	.1459	2.529E-03	.1816	2.882E-03	.2069	2.335E-03	.1676
13.72	.265	641.45	2.471E-03	.1774	3.094E-03	.2222	3.541E-03	.2542	2.850E-03	.2046
14.23	.275	646.14	2.613E-03	.1876	3.278E-03	.2354	3.756E-03	.2697	3.016E-03	.2166
14.74	.285	653.24	2.833E-03	.2034	3.564E-03	.2559	4.093E-03	.2939	3.276E-03	.2352
15.24	.295	656.82	2.946E-03	.2116	3.713E-03	.2666	4.268E-03	.3064	3.411E-03	.2449
15.74	.304	645.96	2.608E-03	.1872	3.271E-03	.2349	3.748E-03	.2691	3.010E-03	.2161
16.23	.314	663.21	3.157E-03	.2267	3.990E-03	.2865	4.595E-03	.3299	3.661E-03	.2629
16.72	.323	668.63	3.343E-03	.2401	4.234E-03	.3040	4.885E-03	.3508	3.882E-03	.2787
17.20	.333	671.21	3.433E-03	.2465	4.353E-03	.3126	5.027E-03	.3609	3.989E-03	.2864
17.68	.342	674.17	3.537E-03	.2540	4.491E-03	.3224	5.190E-03	.3727	4.113E-03	.2953

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL 8

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
8	7	TILE INSERT	0.111	.010	.020	3.575E 05	1.248E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	155.1	1274	39.80	40.01	30.00	-9.80	40.00	0

T-INF (DEG R)	P-INF (PSIA)	Q-INF (PSIA)	V-INF (FT/SEC)	RHO-INF (SLUG/FT3)	MU-INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0168	.740	3764	1.503E-05	7.555E-08	7.491E 05	1.393E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.900	3.136	10.139	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
18.15	.351	666.78	3.280E-03	.2355	4.151E-03	.2980	4.786E-03	.3436	3.807E-03	.2733
18.62	.360	675.94	3.600E-03	.2585	4.574E-03	.3284	5.290E-03	.3798	4.188E-03	.3007
19.09	.369	679.00	3.709E-03	.2663	4.719E-03	.3388	5.463E-03	.3923	4.319E-03	.3101
19.55	.378	681.06	3.783E-03	.2716	4.818E-03	.3459	5.581E-03	.4007	4.407E-03	.3164
20.00	.387	680.89	3.777E-03	.2712	4.810E-03	.3453	5.572E-03	.4001	4.400E-03	.3159
20.45	.395	680.55	3.765E-03	.2703	4.794E-03	.3442	5.552E-03	.3987	4.385E-03	.3149
20.90	.404	663.88	3.181E-03	.2284	4.021E-03	.2887	4.632E-03	.3326	3.689E-03	.2649
21.34	.413	682.76	3.845E-03	.2760	4.901E-03	.3519	5.681E-03	.4079	4.481E-03	.3218
21.78	.421	687.36	4.012E-03	.2881	5.125E-03	.3680	5.951E-03	.4273	4.683E-03	.3362
22.21	.429	688.48	4.054E-03	.2910	5.181E-03	.3720	6.017E-03	.4320	4.733E-03	.3398
22.63	.438	687.52	4.019E-03	.2885	5.134E-03	.3686	5.961E-03	.4280	4.690E-03	.3368
23.06	.446	687.02	4.000E-03	.2872	5.109E-03	.3668	5.931E-03	.4259	4.668E-03	.3352
23.47	.454	675.20	3.575E-03	.2567	4.541E-03	.3260	5.250E-03	.3770	4.158E-03	.2986
23.88	.462	686.47	3.981E-03	.2858	5.083E-03	.3649	5.899E-03	.4236	4.645E-03	.3335
24.29	.470	688.57	4.058E-03	.2914	5.186E-03	.3724	6.024E-03	.4325	4.738E-03	.3402
24.69	.477	686.07	3.966E-03	.2848	5.063E-03	.3635	5.876E-03	.4219	4.627E-03	.3322
25.09	.485	684.07	3.893E-03	.2795	4.965E-03	.3565	5.758E-03	.4134	4.540E-03	.3259
25.49	.493	680.01	3.747E-03	.2690	4.770E-03	.3425	5.524E-03	.3966	4.364E-03	.3133
25.87	.500	668.70	3.348E-03	.2404	4.240E-03	.3045	4.892E-03	.3513	3.888E-03	.2791

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
8	7	TILE INSERT	0.111	.010	.020	3.575E 05	1.248E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	155.1	1274	39.80	40.01	30.00	-9.80	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0168	.740	3764	1.503E-05	7.555E-08	7.491E 05	1.393E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.900	3.136	10.139	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.375	539.59	539.59	538.50	538.23	538.05	537.85	0	0	529.88	530.64
2.372	541.68	541.59	540.06	539.44	538.88	538.44	0	0	530.37	531.27
3.369	543.21	543.03	541.29	540.44	539.59	538.91	0	0	530.96	531.81
4.365	544.47	544.23	542.38	541.35	540.20	539.38	0	0	531.54	532.52
5.362	545.58	545.32	543.32	542.18	540.82	539.85	0	0	532.17	533.19
6.358	546.61	546.29	544.23	542.94	541.38	540.26	0	0	532.75	533.78
7.355	547.57	547.19	545.05	543.68	541.97	540.71	0	0	533.37	534.45
8.351	548.48	548.07	545.85	544.38	542.50	541.12	0	0	534.00	535.16
9.348	549.33	548.89	546.61	545.05	543.03	541.53	0	0	534.58	535.74
10.345	550.15	549.68	547.31	545.73	543.59	541.94	0	0	535.21	536.32
11.341	550.91	550.41	548.01	546.34	544.09	542.38	0	0	535.79	537.04
12.338	551.64	551.14	548.69	546.99	544.61	542.79	0	0	536.41	537.62
13.334	552.34	551.84	549.36	547.60	545.14	543.23	0	0	536.99	538.20
14.331	553.04	552.51	550.00	548.19	545.64	543.68	0	0	537.62	538.87
15.327	553.71	553.15	550.62	548.77	546.17	544.12	0	0	538.20	539.49
16.324	554.35	553.79	551.23	549.36	546.67	544.56	0	0	538.82	540.02
17.321	554.99	554.41	551.84	549.94	547.19	544.97	0	0	539.36	540.74
18.317	555.60	555.02	552.42	550.47	547.69	545.41	0	0	539.98	541.18
19.314	556.21	555.60	553.01	551.02	548.22	545.90	0	0	540.60	541.81
20.310	556.82	556.21	553.59	551.58	548.69	546.32	0	0	541.14	542.43
21.307	557.40	556.76	554.14	552.13	549.18	546.78	0	0	541.72	543.01

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
8	7	TILE INSERT	0.111	.010	.020	3.575E 05	1.248E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	155.1	1274	39.80	40.01	30.00	-9.80	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0168	.740	3764	1.503E-05	7.555E-08	7.491E 05	1.393E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.900	3.136	10.139	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.303	557.95	557.34	554.70	552.66	549.71	547.25	0	0	542.34	543.63
23.300	558.53	557.89	555.25	553.18	550.21	547.66	0	0	542.92	544.21
24.297	559.08	558.45	555.77	553.71	550.70	548.16	0	0	543.50	544.78
25.293	559.63	558.97	556.33	554.23	551.20	548.60	0	0	544.16	545.50

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
8	7	TILE INSERT	0.111	.010	.020	3.575E 05	1.248E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	155.1	1274	39.80	40.01	30.00	-9.80	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0168	.740	3764	1.503E-05	7.555E-08	7.491E 05	1.393E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.900	3.136	10.139	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.643	1
15.524	2
20.653	3

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
9	7	TILE INSERT	0.111	.010	.020	3.494E 05	1.220E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA=MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA=PREBEND	ALPHA=SECTOR	ALPHA=NOM	YAW
7.93	151.7	1275	29.87	30.00	30.00	.13	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0164	.724	3765	1.470E-05	7.560E-08	7.320E 05	1.378E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
42.142	3.159	40.368	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.12	.080	568.95	3.037E-04	.0220	3.707E-04	.0269	4.166E-04	.0302	3.608E-04	.0262
4.61	.089	647.99	1.350E-03	.0980	1.694E-03	.1230	1.942E-03	.1410	1.642E-03	.1192
5.10	.099	572.15	3.397E-04	.0247	4.150E-04	.0301	4.667E-04	.0339	4.039E-04	.0293
7.02	.136	574.25	3.637E-04	.0264	4.446E-04	.0323	5.002E-04	.0363	4.326E-04	.0314
7.49	.145	632.94	1.124E-03	.0816	1.403E-03	.1019	1.601E-03	.1163	1.361E-03	.0988
7.96	.154	630.48	1.089E-03	.0790	1.357E-03	.0985	1.548E-03	.1124	1.317E-03	.0956
8.43	.163	636.22	1.172E-03	.0851	1.465E-03	.1063	1.674E-03	.1215	1.421E-03	.1031
8.90	.172	634.56	1.148E-03	.0833	1.433E-03	.1041	1.637E-03	.1188	1.391E-03	.1009
9.36	.181	632.29	1.115E-03	.0809	1.391E-03	.1010	1.587E-03	.1152	1.349E-03	.0980
9.82	.190	629.07	1.069E-03	.0776	1.332E-03	.0967	1.518E-03	.1102	1.292E-03	.0938
10.28	.199	617.55	9.076E-04	.0659	1.126E-03	.0817	1.280E-03	.0929	1.093E-03	.0794
10.74	.208	626.18	1.028E-03	.0746	1.279E-03	.0928	1.457E-03	.1058	1.241E-03	.0901
11.19	.216	628.39	1.059E-03	.0769	1.319E-03	.0958	1.504E-03	.1092	1.280E-03	.0929
11.65	.225	626.84	1.037E-03	.0753	1.291E-03	.0937	1.471E-03	.1068	1.253E-03	.0909
12.10	.234	625.89	1.023E-03	.0743	1.274E-03	.0925	1.451E-03	.1053	1.236E-03	.0897
12.54	.242	623.72	9.930E-04	.0721	1.235E-03	.0896	1.406E-03	.1021	1.199E-03	.0870
12.99	.251	617.31	9.043E-04	.0656	1.122E-03	.0814	1.275E-03	.0926	1.089E-03	.0791
13.43	.260	625.41	1.017E-03	.0738	1.265E-03	.0918	1.441E-03	.1046	1.228E-03	.0891
13.87	.268	626.44	1.031E-03	.0749	1.284E-03	.0932	1.463E-03	.1062	1.246E-03	.0904
14.30	.277	625.33	1.016E-03	.0737	1.264E-03	.0917	1.439E-03	.1045	1.226E-03	.0890
14.74	.285	627.60	1.048E-03	.0761	1.305E-03	.0947	1.487E-03	.1080	1.266E-03	.0919

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
9	7	TILE INSERT	0.111	.010	.020	3.494E 05	1.220E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	151.7	1275	29.87	30.00	30.00	.13	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0164	.724	3765	1.470E-05	7.560E-08	7.320E 05	1.378E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
42.142	3.159	40.368	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.17	.293	618.40	9.192E-04	.0667	1.141E-03	.0828	1.297E-03	.0942	1.108E-03	.0804
15.60	.302	624.63	1.006E-03	.0730	1.251E-03	.0908	1.425E-03	.1034	1.214E-03	.0881
16.03	.310	629.53	1.075E-03	.0781	1.340E-03	.0973	1.528E-03	.1109	1.300E-03	.0944
16.45	.318	628.89	1.066E-03	.0774	1.328E-03	.0964	1.515E-03	.1100	1.289E-03	.0936
16.87	.326	632.19	1.114E-03	.0808	1.389E-03	.1008	1.585E-03	.1151	1.348E-03	.0978
17.29	.334	634.06	1.141E-03	.0828	1.424E-03	.1034	1.626E-03	.1180	1.382E-03	.1003
17.71	.342	632.73	1.122E-03	.0814	1.399E-03	.1016	1.597E-03	.1160	1.358E-03	.0986
18.12	.350	631.29	1.101E-03	.0799	1.373E-03	.0996	1.566E-03	.1137	1.332E-03	.0967
18.54	.358	638.12	1.201E-03	.0872	1.501E-03	.1090	1.716E-03	.1246	1.456E-03	.1057
18.95	.366	639.72	1.224E-03	.0889	1.532E-03	.1112	1.752E-03	.1272	1.486E-03	.1078
19.35	.374	641.42	1.250E-03	.0907	1.565E-03	.1136	1.790E-03	.1300	1.517E-03	.1101
19.76	.382	641.51	1.251E-03	.0908	1.567E-03	.1137	1.792E-03	.1301	1.519E-03	.1103
20.16	.390	639.21	1.217E-03	.0883	1.522E-03	.1105	1.740E-03	.1263	1.476E-03	.1072
20.56	.397	625.04	1.012E-03	.0734	1.258E-03	.0914	1.433E-03	.1041	1.221E-03	.0887
20.96	.405	641.91	1.257E-03	.0913	1.574E-03	.1143	1.802E-03	.1308	1.527E-03	.1108
21.35	.413	644.33	1.294E-03	.0939	1.622E-03	.1177	1.857E-03	.1348	1.572E-03	.1141
21.75	.420	645.69	1.315E-03	.0954	1.649E-03	.1197	1.889E-03	.1371	1.598E-03	.1160
22.14	.428	646.90	1.333E-03	.0968	1.673E-03	.1214	1.917E-03	.1392	1.622E-03	.1177
22.52	.435	645.51	1.312E-03	.0952	1.645E-03	.1194	1.885E-03	.1368	1.595E-03	.1158
22.91	.443	641.82	1.256E-03	.0912	1.573E-03	.1142	1.800E-03	.1306	1.525E-03	.1107
23.29	.450	634.43	1.146E-03	.0832	1.431E-03	.1039	1.634E-03	.1187	1.388E-03	.1008
23.67	.458	642.16	1.261E-03	.0916	1.579E-03	.1147	1.807E-03	.1312	1.531E-03	.1112

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
9	7	TILE INSERT	0.111	.010	.020	3.494E 05	1.220E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	151.7	1275	29.87	30.00	30.00	.13	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0164	.724	3765	1.470E-05	7.560E-08	7.320E 05	1.378E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
42.142	3.159	40.368	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.05	.465	642.35	1.264E-03	.0918	1.583E-03	.1149	1.812E-03	.1315	1.535E-03	.1114
24.42	.472	640.92	1.242E-03	.0902	1.555E-03	.1129	1.779E-03	.1292	1.508E-03	.1095
24.80	.479	639.91	1.227E-03	.0891	1.536E-03	.1115	1.756E-03	.1275	1.489E-03	.1081
25.17	.486	636.75	1.181E-03	.0857	1.475E-03	.1071	1.686E-03	.1224	1.431E-03	.1039
25.53	.494	629.11	1.070E-03	.0776	1.333E-03	.0967	1.519E-03	.1103	1.293E-03	.0939
25.90	.501	610.70	8.153E-04	.0592	1.009E-03	.0732	1.145E-03	.0831	9.800E-04	.0711

NASA/RI OH69
V41R-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL-B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
9	7	TILE INSERT	0.111	.010	.020	3.494E 05	1.220E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	151.7	1275	29.87	30.00	30.00	.13	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0164	.724	3765	1.470E-05	7.560E-08	7.320E 05	1.378E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
42.142	3.159	40.368	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.385	538.85	538.50	537.23	536.87	536.78	536.37	0	0	529.16	529.39
2.382	541.00	540.50	538.70	537.94	537.34	536.81	0	0	529.30	529.52
3.379	542.59	541.97	539.91	538.91	537.96	537.23	0	0	529.39	529.66
4.375	543.91	543.23	540.97	539.73	538.53	537.58	0	0	529.52	529.66
5.372	545.08	544.35	541.94	540.56	539.09	537.96	0	0	529.61	529.88
6.368	546.17	545.35	542.79	541.29	539.59	538.35	0	0	529.70	529.88
7.365	547.14	546.26	543.65	542.00	540.09	538.70	0	0	529.79	530.06
8.361	548.07	547.14	544.44	542.68	540.62	539.09	0	0	529.88	530.19
9.358	548.92	547.98	545.20	543.35	541.12	539.44	0	0	530.02	530.28
10.355	549.74	548.75	545.90	544.00	541.62	539.82	0	0	530.15	530.37
11.351	550.50	549.51	546.61	544.61	542.12	540.20	0	0	530.19	530.51
12.348	551.26	550.24	547.28	545.23	542.62	540.59	0	0	530.28	530.51
13.344	551.96	550.94	547.93	545.82	543.09	541.00	0	0	530.46	530.73
14.341	552.66	551.58	548.54	546.43	543.59	541.38	0	0	530.60	530.78
15.337	553.33	552.25	549.18	546.99	544.09	541.76	0	0	530.60	530.87
16.334	553.97	552.86	549.80	547.55	544.56	542.18	0	0	530.73	531.00
17.331	554.58	553.47	550.38	548.10	545.05	542.59	0	0	530.82	531.09
18.327	555.22	554.09	550.97	548.63	545.52	543.00	0	0	531.00	531.22
19.324	555.80	554.67	551.52	549.18	546.02	543.41	0	0	531.00	531.27
20.320	556.38	555.25	552.07	549.71	546.49	543.82	0	0	531.09	531.36
21.317	556.97	555.80	552.63	550.24	546.99	544.26	0	0	531.27	531.49

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
9	7	TILE INSERT	0.111	.010	.020	3.494E 05	1.220E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	151.7	1275	29.87	30.00	30.00	.13	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0164	.724	3765	1.470E-05	7.560E-08	7.320E 05	1.378E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
42.142	3.159	40.368	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.313	557.52	556.38	553.15	550.73	547.43	544.70	0	0	531.40	531.63
23.310	558.07	556.91	553.71	551.26	547.93	545.11	0	0	531.45	531.72
24.307	558.62	557.43	554.20	551.75	548.39	545.52	0	0	531.58	531.81
25.303	559.14	557.98	554.76	552.28	548.86	545.99	0	0	531.63	531.94
26.300	559.66	558.50	555.25	552.77	549.36	546.40	0	0	531.76	532.03
27.296	560.19	559.00	555.74	553.27	549.80	546.87	0	0	531.85	532.17
28.293	560.71	559.55	556.27	553.74	550.26	547.28	0	0	531.94	532.21
29.289	561.20	560.04	556.79	554.23	550.73	547.69	0	0	531.99	532.34
30.286	561.72	560.53	557.28	554.73	551.20	548.16	0	0	532.17	532.39
31.283	562.21	561.03	557.78	555.22	551.70	548.60	0	0	532.30	532.52
32.279	562.73	561.52	558.24	555.69	552.13	549.04	0	0	532.39	532.66
33.276	563.22	562.01	558.74	556.15	552.60	549.45	0	0	532.48	532.66
34.272	563.69	562.50	559.20	556.65	553.07	549.89	0	0	532.57	532.84
35.269	564.18	562.99	559.69	557.11	553.53	550.35	0	0	532.66	532.97
36.265	564.64	563.48	560.16	557.57	554.00	550.79	0	0	532.79	533.02
37.262	565.13	563.95	560.65	558.07	554.43	551.23	0	0	532.84	533.19
38.259	565.62	564.41	561.11	558.50	554.90	551.70	0	0	532.97	533.19
39.255	566.08	564.87	561.58	558.97	555.37	552.13	0	0	533.06	533.37
40.252	566.57	565.33	562.04	559.43	555.80	552.57	0	0	533.19	533.42
41.248	567.03	565.82	562.50	559.92	556.27	553.01	0	0	533.28	533.51
42.245	567.50	566.28	562.96	560.36	556.70	553.47	0	0	533.37	533.73
43.241	567.98	566.75	563.46	560.79	557.17	553.88	0	0	533.51	533.69

NASA/RI OH69
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
9	7	TILE INSERT	0.111	.010	.020	3.494E 05	1.220E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	151.7	1275	29.87	30.00	30.00	.13	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0164	.724	3765	1.470E-05	7.560E-08	7.320E 05	1.378E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
42.142	3.159	40.368	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
44.238	568.42	567.18	563.92	561.29	557.63	554.35	0	0	533.60	533.82
45.235	568.88	567.67	564.35	561.75	558.07	554.78	0	0	533.69	533.95
46.231	569.34	568.10	564.84	562.18	558.53	555.25	0	0	533.78	534.09
47.228	569.80	568.56	565.28	562.65	558.97	555.66	0	0	533.87	534.22

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
9	7	TILE INSERT	0.111	.010	.020	3.494E 05	1.220E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	151.7	1275	29.87	30.00	30.00	.13	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0164	.724	3765	1.470E-05	7.560E-08	7.320E 05	1.378E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
42.142	3.159	40.368	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
6.921	1
13.061	2
19.635	3
39.881	4

NASA/RI OH69
V41B-E9A

AEDC (ARO, INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
10	7	TILE INSERT	0.111	.010	.020	2.476E 05	8.646E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.2	1265	39.85	39.98	30.00	-9.85	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0117	.511	3750	1.045E-05	7.555E-08	5.188E 05	1.155E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.724	3.305	35.869	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.20	.139	602.76	8.245E-04	.0714	1.019E-03	.0882	1.156E-03	.1000	9.434E-04	.0816
7.77	.150	642.41	1.426E-03	.1234	1.789E-03	.1549	2.051E-03	.1775	1.647E-03	.1425
8.33	.161	646.99	1.502E-03	.1300	1.888E-03	.1634	2.167E-03	.1875	1.736E-03	.1503
8.89	.172	646.34	1.491E-03	.1290	1.874E-03	.1622	2.150E-03	.1861	1.723E-03	.1492
9.45	.183	641.45	1.410E-03	.1220	1.769E-03	.1531	2.027E-03	.1754	1.628E-03	.1409
10.00	.193	636.45	1.329E-03	.1151	1.664E-03	.1441	1.904E-03	.1648	1.533E-03	.1327
10.54	.204	631.67	1.254E-03	.1085	1.566E-03	.1356	1.790E-03	.1549	1.444E-03	.1250
11.08	.214	636.55	1.331E-03	.1152	1.666E-03	.1442	1.907E-03	.1650	1.535E-03	.1328
11.62	.225	634.13	1.292E-03	.1119	1.617E-03	.1399	1.848E-03	.1600	1.490E-03	.1289
12.15	.235	632.43	1.266E-03	.1095	1.582E-03	.1369	1.808E-03	.1565	1.458E-03	.1262
12.68	.245	630.31	1.232E-03	.1067	1.539E-03	.1332	1.758E-03	.1521	1.419E-03	.1228
13.20	.255	626.62	1.175E-03	.1017	1.466E-03	.1268	1.672E-03	.1447	1.352E-03	.1170
13.72	.265	632.19	1.262E-03	.1092	1.577E-03	.1365	1.802E-03	.1560	1.454E-03	.1258
14.23	.275	631.25	1.247E-03	.1079	1.558E-03	.1349	1.780E-03	.1541	1.436E-03	.1243
14.74	.285	633.25	1.279E-03	.1107	1.599E-03	.1384	1.827E-03	.1582	1.473E-03	.1275
15.24	.295	630.83	1.241E-03	.1074	1.550E-03	.1341	1.770E-03	.1532	1.429E-03	.1237
15.74	.304	626.58	1.175E-03	.1017	1.465E-03	.1268	1.671E-03	.1447	1.351E-03	.1170
16.23	.314	632.29	1.264E-03	.1094	1.579E-03	.1367	1.805E-03	.1562	1.456E-03	.1260
16.72	.323	634.63	1.301E-03	.1126	1.627E-03	.1408	1.861E-03	.1610	1.499E-03	.1297
17.20	.333	635.86	1.320E-03	.1143	1.652E-03	.1430	1.890E-03	.1636	1.522E-03	.1317
17.68	.342	636.72	1.334E-03	.1154	1.670E-03	.1445	1.911E-03	.1654	1.538E-03	.1331

NASA/RI OH69
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
10	7	TILE INSERT	0.111	.010	.020	2.476E 05	8.646E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.2	1265	39.85	39.98	30.00	-9.85	40.00	0

T-INF (DEG R)	P-INF (PSIA)	Q-INF (PSIA)	V-INF (FT/SEC)	RHO-INF (SLUG/FT3)	MU-INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0117	.511	3750	1.045E-05	7.555E-08	5.188E 05	1.155E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
37.724	3.305	35.869	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
18.15	.351	629.18	1.215E-03	.1051	1.517E-03	.1313	1.732E-03	.1499	1.399E-03	.1210
18.62	.360	638.28	1.359E-03	.1176	1.703E-03	.1474	1.949E-03	.1687	1.568E-03	.1357
19.09	.369	639.88	1.385E-03	.1199	1.736E-03	.1503	1.988E-03	.1721	1.598E-03	.1383
19.55	.378	640.66	1.398E-03	.1210	1.753E-03	.1517	2.008E-03	.1738	1.613E-03	.1396
20.00	.387	640.00	1.387E-03	.1200	1.739E-03	.1505	1.991E-03	.1724	1.601E-03	.1385
20.45	.395	633.86	1.288E-03	.1115	1.611E-03	.1395	1.842E-03	.1594	1.485E-03	.1285
20.90	.404	627.64	1.191E-03	.1031	1.486E-03	.1286	1.696E-03	.1468	1.371E-03	.1186
21.34	.413	638.34	1.360E-03	.1177	1.704E-03	.1475	1.951E-03	.1688	1.569E-03	.1358
21.78	.421	640.29	1.392E-03	.1204	1.745E-03	.1510	1.999E-03	.1730	1.606E-03	.1390
22.21	.429	639.24	1.375E-03	.1190	1.723E-03	.1491	1.973E-03	.1707	1.586E-03	.1373
22.63	.438	639.08	1.372E-03	.1187	1.719E-03	.1488	1.969E-03	.1704	1.583E-03	.1370
23.06	.446	637.89	1.353E-03	.1171	1.695E-03	.1467	1.940E-03	.1679	1.561E-03	.1351
23.47	.454	624.51	1.143E-03	.0989	1.424E-03	.1233	1.624E-03	.1406	1.314E-03	.1138
23.88	.462	633.65	1.285E-03	.1112	1.607E-03	.1391	1.837E-03	.1590	1.481E-03	.1282
24.29	.470	633.35	1.280E-03	.1108	1.601E-03	.1386	1.830E-03	.1584	1.475E-03	.1277
24.69	.477	634.66	1.301E-03	.1126	1.628E-03	.1409	1.862E-03	.1611	1.500E-03	.1298
25.09	.485	632.05	1.260E-03	.1090	1.575E-03	.1363	1.799E-03	.1557	1.451E-03	.1256
25.49	.493	629.22	1.216E-03	.1052	1.518E-03	.1313	1.733E-03	.1500	1.399E-03	.1211
25.87	.500	615.26	1.004E-03	.0869	1.247E-03	.1079	1.419E-03	.1228	1.152E-03	.0997

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
10	7	TILE INSERT	0.111	.010	.020	2.476E 05	8.646E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.2	1265	39.85	39.98	30.00	-9.85	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0117	.511	3750	1.045E-05	7.555E-08	5.188E 05	1.155E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.724	3.305	35.869	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.450	539.91	539.82	538.91	538.76	538.73	538.44	0	0	528.04	528.58
2.446	541.62	541.47	540.20	539.76	539.32	538.91	0	0	528.27	528.71
3.443	542.85	542.68	541.24	540.59	539.91	539.32	0	0	528.45	528.89
4.439	543.91	543.70	542.12	541.32	540.44	539.70	0	0	528.67	529.12
5.436	544.85	544.56	542.91	542.00	540.91	540.06	0	0	528.85	529.25
6.432	545.67	545.38	543.65	542.62	541.38	540.41	0	0	529.07	529.43
7.429	546.46	546.14	544.32	543.21	541.85	540.76	0	0	529.25	529.70
8.426	547.19	546.81	544.97	543.82	542.32	541.12	0	0	529.48	529.84
9.422	547.90	547.52	545.61	544.38	542.76	541.47	0	0	529.61	530.06
10.419	548.57	548.13	546.20	544.91	543.18	541.82	0	0	529.84	530.19
11.415	549.18	548.75	546.75	545.44	543.62	542.18	0	0	530.02	530.42
12.412	549.80	549.33	547.31	545.93	544.06	542.53	0	0	530.24	530.64
13.408	550.41	549.94	547.87	546.43	544.47	542.88	0	0	530.46	530.82
14.405	550.97	550.47	548.39	546.93	544.91	543.23	0	0	530.60	531.09
15.402	551.49	550.99	548.92	547.43	545.32	543.59	0	0	530.82	531.18
16.398	552.05	551.55	549.42	547.90	545.73	543.94	0	0	531.05	531.45
17.395	552.57	552.05	549.91	548.36	546.17	544.32	0	0	531.18	531.63
18.391	553.07	552.54	550.41	548.83	546.58	544.70	0	0	531.40	531.76
19.388	553.56	553.04	550.88	549.30	547.02	545.05	0	0	531.58	532.08
20.384	554.06	553.53	551.35	549.74	547.40	545.41	0	0	531.81	532.17
21.381	554.55	554.00	551.81	550.18	547.84	545.79	0	0	532.03	532.43

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
10	7	TILE INSERT	0.111	.010	.020	2.476E 05	8.646E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.2	1265	39.85	39.98	30.00	-9.85	40.00	0

T-INF (DEG R)	P-INF (PSIA)	Q-INF (PSIA)	V-INF (FT/SEC)	RHO-INF (SLUG/FT3)	MU-INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0117	.511	3750	1.045E-05	7.555E-08	5.188E 05	1.155E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.724	3.305	35.869	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.378	555.02	554.46	552.28	550.62	548.25	546.14	0	0	532.21	532.61
23.374	555.48	554.93	552.72	551.05	548.66	546.55	0	0	532.43	532.84
24.371	555.95	555.40	553.15	551.49	549.07	546.90	0	0	532.61	532.97
25.367	556.38	555.83	553.59	551.90	549.45	547.28	0	0	532.79	533.15
26.364	556.82	556.27	554.03	552.34	549.89	547.66	0	0	533.02	533.37
27.360	557.28	556.70	554.46	552.77	550.26	548.04	0	0	533.15	533.55
28.357	557.72	557.14	554.90	553.18	550.67	548.45	0	0	533.33	533.73
29.354	558.13	557.57	555.34	553.59	551.08	548.80	0	0	533.55	533.95
30.350	558.56	557.98	555.74	554.03	551.46	549.18	0	0	533.73	534.13
31.347	559.00	558.42	556.15	554.41	551.87	549.59	0	0	533.87	534.31
32.343	559.40	558.82	556.59	554.84	552.28	549.94	0	0	534.09	534.49
33.340	559.84	559.23	556.99	555.25	552.69	550.35	0	0	534.27	534.76
34.336	560.24	559.63	557.40	555.63	553.07	550.73	0	0	534.45	534.94
35.333	560.65	560.07	557.81	556.03	553.44	551.08	0	0	534.67	535.07
36.330	561.08	560.45	558.21	556.47	553.85	551.49	0	0	534.85	535.25
37.326	561.46	560.88	558.62	556.85	554.23	551.87	0	0	535.07	535.47
38.323	561.87	561.29	559.03	557.26	554.64	552.25	0	0	535.25	535.61
39.319	562.27	561.69	559.43	557.63	555.05	552.63	0	0	535.43	535.83
40.316	562.68	562.10	559.84	558.04	555.42	553.04	0	0	535.61	536.01
41.312	563.08	562.47	560.21	558.45	555.80	553.42	0	0	535.83	536.10
42.309	563.46	562.88	560.62	558.85	556.21	553.79	0	0	536.01	536.46
43.306	563.86	563.28	561.03	559.23	556.62	554.17	0	0	536.19	536.59

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
10	7	TILE INSERT	0.111	.010	.020	2.476E 05	8.646E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.2	1265	39.85	39.98	30.00	-9.85	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0117	.511	3750	1.045E-05	7.555E-08	5.188E 05	1.155E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.724	3.305	35.869	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
44.302	564.26	563.66	561.40	559.61	556.99	554.55	0	0	536.46	536.81
45.299	564.64	564.06	561.81	560.01	557.37	554.93	0	0	536.59	536.99
46.295	565.04	564.47	562.18	560.39	557.78	555.34	0	0	536.77	537.17
47.292	565.45	564.84	562.59	560.79	558.16	555.72	0	0	536.99	537.44
48.288	565.82	565.25	562.96	561.17	558.53	556.06	0	0	537.13	537.62
49.285	566.23	565.62	563.34	561.58	558.94	556.44	0	0	537.35	537.71
50.282	566.60	566.00	563.74	561.95	559.32	556.85	0	0	537.62	538.02
51.278	567.01	566.40	564.15	562.33	559.69	557.23	0	0	537.71	538.11
52.275	567.41	566.77	564.52	562.73	560.10	557.60	0	0	537.93	538.42
53.271	567.78	567.18	564.93	563.11	560.48	558.01	0	0	538.20	538.55
54.268	568.19	567.58	565.30	563.48	560.85	558.36	0	0	538.38	538.69
55.264	568.56	567.96	565.68	563.86	561.26	558.74	0	0	538.64	539.04
56.261	568.93	568.33	566.08	564.24	561.63	559.14	0	0	538.78	539.13
57.258	569.31	568.70	566.46	564.64	562.01	559.49	0	0	538.95	539.31
58.254	569.71	569.11	566.83	565.04	562.39	559.87	0	0	539.18	539.58
59.251	570.09	569.48	567.24	565.39	562.76	560.27	0	0	539.36	539.76
60.247	570.46	569.86	567.61	565.77	563.17	560.62	0	0	539.58	540.02
61.244	570.83	570.23	567.98	566.17	563.54	561.03	0	0	539.76	540.11
62.240	571.23	570.60	568.39	566.54	563.92	561.40	0	0	539.98	540.38
63.237	571.61	571.00	568.73	566.92	564.29	561.78	0	0	540.16	540.51
64.234	571.98	571.38	569.14	567.29	564.67	562.15	0	0	540.38	540.74

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
10	7	TILE INSERT	0.111	.010	.020	2.476E 05	8.646E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.2	1265	39.85	39.98	30.00	-9.85	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0117	.511	3750	1.045E-05	7.555E-08	5.188E 05	1.155E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.724	3.305	35.869	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.411	1
14.858	2
22.835	3
35.031	4

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 11/18/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41H-F04

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
11	7	TILE INSERT	0.111	.010	.020	4.195E 05	1.465E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	183.3	1277	29.88	30.04	30.00	.12	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0197	.870	3770	1.762E-05	7.558E-08	8.790E 05	1.511E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.961	3.323	23.096	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.913TO)	H(.913TO)/HREF
4.12	.080	568.04	3.729E-04	.0247	4.548E-04	.0301	5.110E-04	.0338	4.427E-04	.0293
4.61	.089	641.19	1.625E-03	.1075	2.033E-03	.1345	2.325E-03	.1539	1.971E-03	.1304
5.10	.099	570.91	4.153E-04	.0275	5.069E-04	.0336	5.698E-04	.0377	4.933E-04	.0327
7.02	.136	572.41	4.376E-04	.0290	5.345E-04	.0354	6.009E-04	.0398	5.201E-04	.0344
7.49	.145	622.50	1.269E-03	.0840	1.577E-03	.1044	1.794E-03	.1188	1.531E-03	.1013
7.96	.154	620.53	1.233E-03	.0816	1.531E-03	.1014	1.741E-03	.1153	1.486E-03	.0984
8.43	.163	622.92	1.277E-03	.0845	1.587E-03	.1050	1.806E-03	.1195	1.540E-03	.1019
8.90	.172	622.46	1.269E-03	.0840	1.576E-03	.1043	1.793E-03	.1187	1.530E-03	.1013
9.36	.181	621.54	1.252E-03	.0829	1.555E-03	.1029	1.769E-03	.1171	1.509E-03	.0999
9.82	.190	616.44	1.160E-03	.0768	1.438E-03	.0952	1.633E-03	.1081	1.396E-03	.0924
10.28	.199	607.43	1.001E-03	.0663	1.237E-03	.0819	1.402E-03	.0928	1.202E-03	.0796
10.74	.208	615.87	1.150E-03	.0761	1.425E-03	.0943	1.618E-03	.1071	1.383E-03	.0916
11.19	.216	618.15	1.191E-03	.0788	1.477E-03	.0977	1.676E-03	.1111	1.434E-03	.0949
11.65	.225	618.23	1.192E-03	.0789	1.479E-03	.0979	1.680E-03	.1112	1.435E-03	.0950
12.10	.234	618.59	1.199E-03	.0793	1.487E-03	.0984	1.690E-03	.1119	1.443E-03	.0955
12.54	.242	617.50	1.179E-03	.0780	1.462E-03	.0968	1.661E-03	.1100	1.419E-03	.0940
12.99	.251	614.50	1.125E-03	.0745	1.394E-03	.0923	1.583E-03	.1048	1.353E-03	.0896
13.43	.260	623.79	1.293E-03	.0856	1.608E-03	.1064	1.830E-03	.1211	1.560E-03	.1033
13.87	.268	627.45	1.361E-03	.0901	1.694E-03	.1121	1.930E-03	.1278	1.644E-03	.1088
14.30	.277	629.21	1.394E-03	.0923	1.736E-03	.1149	1.979E-03	.1310	1.685E-03	.1115
14.74	.285	631.28	1.433E-03	.0949	1.787E-03	.1183	2.038E-03	.1349	1.733E-03	.1147

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
11	7	TILE INSERT	0.111	.010	.020	4.195E 05	1.465E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	183.3	1277	29.88	30.04	30.00	.12	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0197	.870	3770	1.762E-05	7.558E-08	8.790E 05	1.511E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.961	3.323	23.096	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.913TO)	H(.913TO)/HREF
15.17	.293	628.46	1.380E-03	.0914	1.718E-03	.1137	1.958E-03	.1296	1.667E-03	.1104
15.60	.302	632.90	1.464E-03	.0969	1.826E-03	.1209	2.084E-03	.1379	1.771E-03	.1172
16.13	.310	641.53	1.632E-03	.1080	2.042E-03	.1352	2.336E-03	.1546	1.980E-03	.1310
16.45	.318	647.84	1.758E-03	.1164	2.206E-03	.1460	2.528E-03	.1673	2.138E-03	.1415
16.87	.326	651.92	1.841E-03	.1219	2.314E-03	.1532	2.655E-03	.1757	2.242E-03	.1484
17.29	.334	655.52	1.916E-03	.1268	2.412E-03	.1596	2.770E-03	.1833	2.336E-03	.1546
17.71	.342	655.87	1.924E-03	.1273	2.421E-03	.1603	2.781E-03	.1841	2.345E-03	.1552
18.12	.350	652.37	1.851E-03	.1225	2.326E-03	.1540	2.669E-03	.1767	2.254E-03	.1492
18.54	.358	662.47	2.066E-03	.1368	2.608E-03	.1726	3.001E-03	.1987	2.525E-03	.1671
18.95	.366	666.18	2.150E-03	.1423	2.718E-03	.1799	3.131E-03	.2073	2.631E-03	.1741
19.35	.374	668.38	2.199E-03	.1456	2.783E-03	.1842	3.209E-03	.2124	2.694E-03	.1783
19.76	.382	668.14	2.194E-03	.1452	2.776E-03	.1838	3.201E-03	.2119	2.687E-03	.1779
20.16	.390	669.54	2.226E-03	.1473	2.818E-03	.1865	3.251E-03	.2152	2.727E-03	.1805
20.56	.397	652.04	1.845E-03	.1221	2.318E-03	.1534	2.659E-03	.1760	2.246E-03	.1487
20.96	.405	674.94	2.351E-03	.1556	2.983E-03	.1975	3.447E-03	.2282	2.886E-03	.1910
21.35	.413	677.62	2.413E-03	.1597	3.066E-03	.2030	3.546E-03	.2347	2.966E-03	.1963
21.75	.420	681.64	2.508E-03	.1660	3.193E-03	.2113	3.697E-03	.2447	3.087E-03	.2044
22.14	.428	682.10	2.519E-03	.1668	3.207E-03	.2123	3.715E-03	.2459	3.101E-03	.2053
22.52	.435	683.64	2.556E-03	.1692	3.257E-03	.2156	3.774E-03	.2498	3.149E-03	.2084
22.91	.443	681.26	2.499E-03	.1654	3.181E-03	.2105	3.683E-03	.2438	3.076E-03	.2036
23.29	.450	672.81	2.302E-03	.1523	2.918E-03	.1932	3.369E-03	.2230	2.823E-03	.1869
23.67	.458	684.18	2.569E-03	.1701	3.274E-03	.2167	3.795E-03	.2512	3.165E-03	.2095

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
11	7	TILE INSERT	0.111	.010	.020	4.195E 05	1.465E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	183.3	1277	29.88	30.04	30.00	.12	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0197	.870	3770	1.762E-05	7.558E-08	8.790E 05	1.511E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.961	3.323	23.096	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.913TO)	H(.913TO)/HREF
24.05	.465	687.65	2.653E-03	.1756	3.386E-03	.2241	3.929E-03	.2601	3.273E-03	.2166
24.42	.472	684.63	2.580E-03	.1708	3.289E-03	.2177	3.812E-03	.2523	3.179E-03	.2105
24.80	.479	685.17	2.593E-03	.1716	3.306E-03	.2188	3.833E-03	.2537	3.196E-03	.2115
25.17	.486	683.89	2.562E-03	.1696	3.265E-03	.2161	3.784E-03	.2505	3.157E-03	.2089
25.53	.494	672.08	2.285E-03	.1512	2.896E-03	.1917	3.343E-03	.2213	2.802E-03	.1855
25.90	.501	641.25	1.627E-03	.1077	2.036E-03	.1347	2.328E-03	.1541	1.974E-03	.1306

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
11	7	TILE INSERT	0.111	.010	.020	4.195E 05	1.465E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	183.3	1277	29.88	30.04	30.00	.12	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0197	.870	3770	1.762E-05	7.558E-08	8.790E 05	1.511E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.961	3.323	23.096	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.458	537.49	537.05	535.60	535.19	534.95	534.60	0	0	527.19	527.55
2.454	539.76	539.17	537.20	536.34	535.63	535.07	0	0	527.41	527.68
3.451	541.47	540.79	538.55	537.37	536.25	535.48	0	0	527.55	527.82
4.447	542.94	542.15	539.67	538.32	536.90	535.90	0	0	527.77	528.04
5.444	544.20	543.35	540.71	539.20	537.49	536.31	0	0	527.95	528.31
6.441	545.38	544.44	541.68	540.00	538.05	536.70	0	0	528.13	528.49
7.437	546.46	545.47	542.59	540.76	538.61	537.14	0	0	528.31	528.76
8.434	547.46	546.43	543.47	541.53	539.17	537.52	0	0	528.54	528.94
9.430	548.39	547.31	544.29	542.26	539.73	537.94	0	0	528.71	529.07
10.427	549.30	548.19	545.08	542.97	540.29	538.35	0	0	528.94	529.34
11.423	550.12	549.01	545.85	543.68	540.85	538.76	0	0	529.07	529.52
12.420	550.94	549.80	546.58	544.29	541.38	539.17	0	0	529.30	529.70
13.417	551.70	550.53	547.31	544.97	541.94	539.59	0	0	529.48	529.88
14.413	552.45	551.29	547.98	545.61	542.47	540.06	0	0	529.66	530.10
15.410	553.21	551.99	548.66	546.26	543.00	540.47	0	0	529.84	530.33
16.406	553.91	552.69	549.33	546.84	543.56	540.94	0	0	530.02	530.46
17.403	554.58	553.36	549.97	547.46	544.09	541.38	0	0	530.24	530.64
18.399	555.25	554.00	550.59	548.07	544.61	541.82	0	0	530.42	530.87
19.396	555.89	554.64	551.23	548.66	545.14	542.29	0	0	530.60	531.05
20.393	556.56	555.28	551.84	549.24	545.67	542.76	0	0	530.82	531.27
21.389	557.17	555.89	552.42	549.83	546.17	543.21	0	0	531.00	531.45

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
11	7	TILE INSERT	0.111	.010	.020	4.195E 05	1.465E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	183.3	1277	29.88	30.04	30.00	.12	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0197	.870	3770	1.762E-05	7.558E-08	8.790E 05	1.511E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.961	3.323	23.096	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.386	557.81	556.50	553.04	550.38	546.70	543.70	0	0	531.22	531.58
23.382	558.39	557.08	553.59	550.94	547.22	544.14	0	0	531.36	531.81
24.379	558.97	557.69	554.20	551.52	547.75	544.61	0	0	531.54	532.08
25.375	559.58	558.27	554.76	552.05	548.28	545.11	0	0	531.72	532.21
26.372	560.13	558.82	555.31	552.57	548.77	545.58	0	0	531.94	532.39
27.369	560.71	559.40	555.86	553.12	549.30	546.05	0	0	532.12	532.57
28.365	561.29	559.95	556.41	553.68	549.80	546.55	0	0	532.25	532.79
29.362	561.84	560.50	556.97	554.20	550.35	547.02	0	0	532.52	532.93
30.358	562.39	561.05	557.52	554.73	550.85	547.52	0	0	532.66	533.10
31.355	562.91	561.58	558.07	555.28	551.35	547.98	0	0	532.88	533.33
32.351	563.46	562.15	558.59	555.80	551.87	548.48	0	0	533.06	533.55
33.348	563.98	562.65	559.11	556.30	552.37	548.95	0	0	533.24	533.73
34.345	564.52	563.20	559.63	556.85	552.86	549.45	0	0	533.37	533.82
35.341	565.04	563.72	560.16	557.34	553.39	549.94	0	0	533.60	534.13
36.338	565.56	564.24	560.68	557.87	553.88	550.41	0	0	533.78	534.22
37.334	566.08	564.76	561.20	558.39	554.38	550.88	0	0	534.00	534.49
38.331	566.60	565.28	561.72	558.88	554.87	551.37	0	0	534.18	534.58
39.327	567.12	565.79	562.21	559.40	555.40	551.87	0	0	534.36	534.89
40.324	567.67	566.31	562.73	559.90	555.89	552.34	0	0	534.54	535.03
41.321	568.16	566.83	563.25	560.39	556.38	552.83	0	0	534.71	535.16
42.317	568.68	567.32	563.74	560.88	556.88	553.33	0	0	534.89	535.38
43.314	569.19	567.84	564.26	561.40	557.37	553.79	0	0	535.12	535.56

NASA/RI OH69
V419-F9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
11	7	TILE INSERT	0.111	.010	.020	4.195E 05	1.465E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	183.3	1277	29.88	30.04	30.00	.12	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0197	.870	3770	1.762E-05	7.558E-08	8.790E 05	1.511E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.961	3.323	23.096	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
11	7	TILE INSERT	0.111	.010	.020	4.195E 05	1.465E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	183.3	1277	29.88	30.04	30.00	.12	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0197	.870	3770	1.762E-05	7.558E-08	8.790E 05	1.511E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.961	3.323	23.096	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.277	1
14.281	2
21.988	3
26.468	4

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
12	7	TILE INSERT	0.111	.010	.020	5.940E 05	2.074E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.8	1288	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0281	1.245	3786	2.500E-05	7.604E-08	1.245E 06	1.810E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.282	2.917	30.645	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.12	.080	570.47	4.540E-04	.0251	5.533E-04	.0306	6.212E-04	.0343	5.386E-04	.0298
4.61	.089	661.51	1.870E-03	.1033	2.354E-03	.1301	2.704E-03	.1494	2.281E-03	.1260
5.10	.099	608.63	8.682E-04	.0480	1.068E-03	.0590	1.208E-03	.0667	1.039E-03	.0574
5.58	.108	572.61	4.817E-04	.0266	5.875E-04	.0325	6.599E-04	.0365	5.719E-04	.0316
7.49	.145	665.00	1.938E-03	.1071	2.443E-03	.1350	2.809E-03	.1552	2.366E-03	.1308
7.96	.154	679.87	2.234E-03	.1235	2.835E-03	.1566	3.274E-03	.1809	2.743E-03	.1516
8.43	.163	697.25	2.598E-03	.1435	3.322E-03	.1836	3.860E-03	.2133	3.211E-03	.1774
8.90	.172	700.68	2.672E-03	.1476	3.422E-03	.1891	3.981E-03	.2200	3.307E-03	.1827
9.36	.181	698.79	2.631E-03	.1454	3.367E-03	.1860	3.914E-03	.2163	3.254E-03	.1798
9.82	.190	701.34	2.686E-03	.1484	3.441E-03	.1902	4.004E-03	.2213	3.325E-03	.1838
10.28	.199	698.61	2.627E-03	.1452	3.362E-03	.1858	3.908E-03	.2159	3.249E-03	.1795
10.74	.208	708.59	2.845E-03	.1572	3.658E-03	.2021	4.268E-03	.2358	3.533E-03	.1952
11.19	.216	723.91	3.192E-03	.1764	4.136E-03	.2286	4.854E-03	.2682	3.990E-03	.2205
11.65	.225	726.06	3.242E-03	.1792	4.206E-03	.2324	4.940E-03	.2730	4.056E-03	.2241
12.10	.234	730.43	3.345E-03	.1848	4.349E-03	.2403	5.118E-03	.2828	4.193E-03	.2317
12.54	.242	734.32	3.438E-03	.1900	4.479E-03	.2475	5.279E-03	.2917	4.317E-03	.2385
12.99	.251	722.43	3.158E-03	.1745	4.089E-03	.2260	4.796E-03	.2650	3.945E-03	.2180
13.43	.260	743.65	3.664E-03	.2025	4.800E-03	.2652	5.679E-03	.3138	4.622E-03	.2554
13.87	.268	747.98	3.772E-03	.2084	4.953E-03	.2737	5.872E-03	.3245	4.767E-03	.2634
14.30	.277	751.75	3.867E-03	.2137	5.089E-03	.2812	6.043E-03	.3339	4.897E-03	.2706
14.74	.285	756.24	3.981E-03	.2200	5.253E-03	.2903	6.252E-03	.3455	5.053E-03	.2792

NASA/RI OH69
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
12	7	TILE INSERT	0.111	.010	.020	5.940E 05	2.074E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.8	1288	29.76	30.00	30.00	.24	30.00	0

T-INF (DEG R)	P-INF (PSIA)	Q-INF (PSIA)	V-INF (FT/SEC)	RHO-INF (SLUG/FT3)	MU-INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0281	1.245	3786	2.500E-05	7.604E-08	1.245E 06	1.810E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.282	2.917	30.645	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.17	.293	753.74	3.917E-03	.2165	5.161E-03	.2852	6.135E-03	.3390	4.965E-03	.2744
15.60	.302	739.93	3.573E-03	.1975	4.671E-03	.2581	5.518E-03	.3049	4.499E-03	.2486
16.03	.310	758.02	4.027E-03	.2225	5.320E-03	.2940	6.336E-03	.3501	5.116E-03	.2827
16.45	.318	762.04	4.132E-03	.2283	5.472E-03	.3024	6.530E-03	.3608	5.260E-03	.2907
16.87	.326	764.51	4.197E-03	.2319	5.566E-03	.3076	6.651E-03	.3675	5.350E-03	.2956
17.29	.334	763.50	4.171E-03	.2305	5.528E-03	.3054	6.601E-03	.3648	5.313E-03	.2936
17.71	.342	761.62	4.121E-03	.2277	5.456E-03	.3015	6.510E-03	.3597	5.245E-03	.2898
18.12	.350	746.16	3.727E-03	.2059	4.888E-03	.2701	5.791E-03	.3200	4.706E-03	.2601
18.54	.358	760.67	4.097E-03	.2264	5.420E-03	.2995	6.464E-03	.3572	5.211E-03	.2880
18.95	.366	761.73	4.124E-03	.2279	5.460E-03	.3017	6.515E-03	.3600	5.249E-03	.2901
19.35	.374	760.56	4.095E-03	.2263	5.417E-03	.2993	6.460E-03	.3570	5.208E-03	.2878
19.76	.382	759.72	4.072E-03	.2250	5.384E-03	.2975	6.418E-03	.3547	5.177E-03	.2861
20.16	.390	757.79	4.022E-03	.2222	5.312E-03	.2935	6.326E-03	.3496	5.108E-03	.2823
20.56	.397	739.38	3.560E-03	.1967	4.652E-03	.2571	5.495E-03	.3036	4.481E-03	.2476
20.96	.405	759.07	4.055E-03	.2241	5.360E-03	.2962	6.387E-03	.3530	5.154E-03	.2848
21.35	.413	765.65	4.228E-03	.2336	5.611E-03	.3101	6.708E-03	.3707	5.392E-03	.2980
21.75	.420	767.48	4.277E-03	.2363	5.682E-03	.3140	6.800E-03	.3757	5.460E-03	.3017
22.14	.428	765.81	4.232E-03	.2339	5.618E-03	.3104	6.716E-03	.3711	5.398E-03	.2983
22.52	.435	766.46	4.250E-03	.2348	5.643E-03	.3118	6.749E-03	.3729	5.422E-03	.2996
22.91	.443	761.82	4.127E-03	.2281	5.464E-03	.3019	6.520E-03	.3603	5.253E-03	.2903
23.29	.450	743.78	3.668E-03	.2027	4.805E-03	.2655	5.686E-03	.3142	4.627E-03	.2557
23.67	.458	762.78	4.153E-03	.2295	5.501E-03	.3040	6.567E-03	.3629	5.288E-03	.2922

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
12	7	TILE INSERT	0.111	.010	.020	5.940E 05	2.074E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.8	1288	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0281	1.245	3786	2.500E-05	7.604E-08	1.245E 06	1.810E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.282	2.917	30.645	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.05	.465	766.32	4.246E-03	.2346	5.638E-03	.3115	6.742E-03	.3726	5.417E-03	.2994
24.42	.472	765.35	4.221E-03	.2332	5.600E-03	.3095	6.694E-03	.3699	5.382E-03	.2974
24.80	.479	762.15	4.136E-03	.2285	5.477E-03	.3026	6.537E-03	.3612	5.265E-03	.2909
25.17	.486	759.30	4.061E-03	.2244	5.369E-03	.2967	6.399E-03	.3536	5.163E-03	.2853
25.53	.494	752.94	3.898E-03	.2154	5.133E-03	.2837	6.100E-03	.3371	4.939E-03	.2729
25.90	.501	712.40	2.931E-03	.1620	3.776E-03	.2086	4.411E-03	.2438	3.645E-03	.2014

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
12	7	TILE INSERT	0.111	.010	.020	5.940E 05	2.074E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.8	1288	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0281	1.245	3786	2.500E-05	7.604E-08	1.245E 06	1.810E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.282	2.917	30.645	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.279	538.35	537.85	536.29	535.87	535.49	535.25	0	0	527.14	527.59
2.276	541.27	540.56	538.29	537.29	536.43	535.84	0	0	527.46	528.00
3.272	543.42	542.56	539.92	538.56	537.23	536.38	0	0	527.86	528.36
4.269	545.18	544.24	541.33	539.68	538.00	536.88	0	0	528.22	528.80
5.265	546.76	545.70	542.62	540.74	538.71	537.38	0	0	528.54	529.21
6.262	548.16	547.05	543.80	541.74	539.41	537.88	0	0	528.89	529.57
7.259	549.48	548.29	544.91	542.68	540.09	538.35	0	0	529.25	529.93
8.255	550.68	549.45	545.97	543.62	540.80	538.85	0	0	529.61	530.37
9.252	551.82	550.56	546.96	544.50	541.45	539.33	0	0	530.02	530.60
10.248	552.90	551.58	547.93	545.35	542.12	539.83	0	0	530.37	531.09
11.245	553.94	552.58	548.87	546.17	542.77	540.33	0	0	530.69	531.49
12.241	554.93	553.54	549.74	546.99	543.42	540.83	0	0	531.09	531.90
13.238	555.87	554.44	550.59	547.81	544.06	541.36	0	0	531.36	532.25
14.235	556.77	555.34	551.44	548.55	544.74	541.89	0	0	531.76	532.52
15.231	557.64	556.19	552.25	549.31	545.38	542.42	0	0	532.12	532.97
16.228	558.51	557.03	553.04	550.07	546.03	542.95	0	0	532.43	533.28
17.224	559.32	557.84	553.83	550.80	546.67	543.50	0	0	532.84	533.69
18.221	560.13	558.62	554.59	551.53	547.32	544.03	0	0	533.19	534.09
19.217	560.91	559.41	555.34	552.23	547.93	544.59	0	0	533.55	534.36
20.214	561.67	560.16	556.07	552.93	548.57	545.12	0	0	533.87	534.80
21.211	562.42	560.89	556.80	553.60	549.22	545.70	0	0	534.22	535.12

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
12	7	TILE INSERT	0.111	.010	.020	5.940E 05	2.074E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.8	1288	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0281	1.245	3786	2.500E-05	7.604E-08	1.245E 06	1.810E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.282	2.917	30.645	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.207	563.14	561.61	557.49	554.29	549.83	546.23	0	0	534.58	535.47
23.204	563.87	562.33	558.22	554.96	550.47	546.82	0	0	534.85	535.83
24.200	564.59	563.06	558.91	555.63	551.09	547.40	0	0	535.25	536.14
25.197	565.28	563.75	559.58	556.30	551.70	547.96	0	0	535.56	536.55
26.193	565.97	564.41	560.25	556.94	552.34	548.55	0	0	535.92	536.90
27.190	566.66	565.08	560.94	557.61	552.95	549.10	0	0	536.32	537.22
28.187	567.36	565.74	561.58	558.25	553.57	549.71	0	0	536.64	537.57
29.183	568.02	566.40	562.25	558.89	554.18	550.27	0	0	536.95	537.97
30.180	568.68	567.10	562.88	559.52	554.79	550.85	0	0	537.30	538.24
31.176	569.34	567.76	563.55	560.16	555.40	551.41	0	0	537.66	538.64
32.173	569.98	568.39	564.18	560.80	556.01	551.99	0	0	538.02	539.00
33.169	570.64	569.03	564.82	561.41	556.62	552.58	0	0	538.33	539.31
34.166	571.27	569.66	565.42	562.01	557.23	553.16	0	0	538.69	539.67
35.163	571.90	570.29	566.06	562.65	557.84	553.71	0	0	539.04	540.02
36.159	572.50	570.89	566.69	563.29	558.42	554.32	0	0	539.40	540.34

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
12	7	TILE INSERT	0.111	.010	.020	5.940E 05	2.074E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.8	1288	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0281	1.245	3786	2.500E-05	7.604E-08	1.245E 06	1.810E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.282	2.917	30.645	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.057	1
13.247	2
19.208	3
29.348	4

NASA/RI OM60
V41H=E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 11/18/75 PAGE 1
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
13	7	TILE INSERT	0.111	.010	.020	5.917E 05	2.066E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA=MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA=PREBEND	ALPHA=SECTOR	ALPHA=NOM	YAW
7.95	264.5	1294	39.65	40.01	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0282	1.248	3794	2.496E-05	7.637E-08	1.240E 06	1.813E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.915	2.866	17.306	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
6.63	.128	566.52	4.721E-04	.0260	5.742E-04	.0317	6.438E-04	.0355	5.348E-04	.0295
7.20	.139	585.34	7.972E-04	.0440	9.752E-04	.0538	1.098E-03	.0605	9.063E-04	.0500
7.77	.150	719.98	4.005E-03	.2208	5.170E-03	.2851	6.051E-03	.3337	4.704E-03	.2594
8.33	.161	711.58	3.754E-03	.2070	4.826E-03	.2661	5.630E-03	.3105	4.398E-03	.2425
8.89	.172	717.41	3.928E-03	.2166	5.065E-03	.2793	5.922E-03	.3265	4.610E-03	.2542
9.45	.183	718.99	3.975E-03	.2192	5.130E-03	.2829	6.001E-03	.3309	4.668E-03	.2574
10.00	.193	721.11	4.039E-03	.2227	5.218E-03	.2877	6.109E-03	.3369	4.746E-03	.2617
10.54	.204	722.79	4.090E-03	.2255	5.288E-03	.2916	6.195E-03	.3416	4.808E-03	.2651
11.08	.214	736.93	4.527E-03	.2496	5.897E-03	.3252	6.948E-03	.3831	5.346E-03	.2948
11.62	.225	743.17	4.726E-03	.2606	6.177E-03	.3406	7.297E-03	.4024	5.592E-03	.3084
12.15	.235	745.65	4.806E-03	.2650	6.291E-03	.3469	7.440E-03	.4103	5.692E-03	.3139
12.68	.245	747.26	4.859E-03	.2679	6.365E-03	.3510	7.533E-03	.4154	5.757E-03	.3175
13.20	.255	737.79	4.554E-03	.2511	5.935E-03	.3273	6.996E-03	.3858	5.380E-03	.2967
13.72	.265	754.17	5.087E-03	.2805	6.691E-03	.3690	7.943E-03	.4380	6.042E-03	.3332
14.23	.275	758.35	5.228E-03	.2883	6.893E-03	.3801	8.199E-03	.4521	6.218E-03	.3429
14.74	.285	759.57	5.269E-03	.2906	6.953E-03	.3834	8.275E-03	.4563	6.270E-03	.3458
15.24	.295	762.06	5.354E-03	.2953	7.076E-03	.3902	8.431E-03	.4649	6.377E-03	.3517
15.74	.304	745.50	4.802E-03	.2648	6.284E-03	.3465	7.432E-03	.4098	5.686E-03	.3136
16.23	.314	758.24	5.224E-03	.2881	6.880E-03	.3798	8.193E-03	.4518	6.214E-03	.3427
16.72	.323	761.73	5.343E-03	.2946	7.060E-03	.3893	8.410E-03	.4638	6.363E-03	.3509
17.20	.333	764.26	5.431E-03	.2995	7.186E-03	.3963	8.571E-03	.4727	6.473E-03	.3570

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
13	7	TILE INSERT	0.111	.010	.020	5.917E 05	2.066E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.5	1294	39.65	40.01	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0282	1.248	3794	2.496E-05	7.637E-08	1.240E 06	1.813E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.915	2.866	17.306	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.68	.342	762.58	5.373E-03	.2963	7.102E-03	.3917	8.465E-03	.4668	6.401E-03	.3530
18.15	.351	757.36	5.195E-03	.2865	6.845E-03	.3775	8.139E-03	.4488	6.177E-03	.3406
18.62	.360	754.05	5.084E-03	.2803	6.686E-03	.3687	7.937E-03	.4377	6.038E-03	.3330
19.09	.369	760.67	5.307E-03	.2927	7.008E-03	.3864	8.345E-03	.4601	6.318E-03	.3484
19.55	.378	762.83	5.382E-03	.2968	7.115E-03	.3924	8.481E-03	.4677	6.412E-03	.3536
20.00	.387	761.37	5.331E-03	.2940	7.043E-03	.3884	8.389E-03	.4626	6.348E-03	.3501
20.45	.395	756.90	5.180E-03	.2856	6.824E-03	.3763	8.111E-03	.4473	6.158E-03	.3396
20.90	.404	737.26	4.539E-03	.2503	5.913E-03	.3261	6.969E-03	.3843	5.360E-03	.2956
21.34	.413	762.06	5.356E-03	.2953	7.077E-03	.3903	8.433E-03	.4650	6.379E-03	.3518
21.78	.421	766.21	5.499E-03	.3033	7.286E-03	.4018	8.698E-03	.4797	6.560E-03	.3617
22.21	.429	764.97	5.456E-03	.3009	7.223E-03	.3983	8.618E-03	.4753	6.505E-03	.3587
22.63	.438	764.34	5.435E-03	.2997	7.192E-03	.3966	8.578E-03	.4730	6.478E-03	.3572
23.06	.446	764.07	5.425E-03	.2992	7.178E-03	.3958	8.561E-03	.4721	6.466E-03	.3566
23.47	.454	743.80	4.748E-03	.2618	6.209E-03	.3424	7.337E-03	.4046	5.620E-03	.3099
23.88	.462	762.11	5.358E-03	.2955	7.081E-03	.3905	8.437E-03	.4653	6.382E-03	.3519
24.29	.470	766.00	5.492E-03	.3029	7.275E-03	.4012	8.685E-03	.4789	6.551E-03	.3612
24.69	.477	763.77	5.415E-03	.2986	7.163E-03	.3950	8.542E-03	.4711	6.454E-03	.3559
25.09	.485	761.56	5.339E-03	.2944	7.054E-03	.3890	8.403E-03	.4634	6.358E-03	.3506
25.49	.493	760.42	5.300E-03	.2923	6.997E-03	.3859	8.331E-03	.4594	6.309E-03	.3479
25.87	.500	750.94	4.982E-03	.2747	6.541E-03	.3607	7.753E-03	.4276	5.911E-03	.3259

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
13	7	TILE INSERT	0.111	.010	.020	5.917E 05	2.066E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.5	1294	39.65	40.01	-30.00	-9.65	40.00	0

T-INF (DEG R)	P-INF (PSIA)	Q-INF (PSIA)	V-INF (FT/SEC)	RHO-INF (SLUG/FT3)	MU-INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0282	1.248	3794	2.496E-05	7.637E-08	1.240E 06	1.813E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.915	2.866	17.306	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.257	530.48	530.42	529.12	528.79	528.55	528.40	0	0	526.20	527.59
2.254	533.42	533.18	531.28	530.45	529.65	529.12	0	0	527.28	528.94
3.250	535.49	535.16	533.00	531.82	530.60	529.80	0	0	528.40	530.24
4.247	537.23	536.85	534.48	533.06	531.46	530.42	0	0	529.57	531.54
5.243	538.77	538.29	535.78	534.16	532.29	531.05	0	0	530.73	532.88
6.240	540.15	539.65	536.97	535.19	533.06	531.64	0	0	531.85	534.18
7.237	541.45	540.89	538.12	536.20	533.83	532.17	0	0	533.06	535.34
8.233	542.65	542.03	539.18	537.14	534.57	532.77	0	0	534.18	536.64
9.230	543.80	543.12	540.18	538.06	535.31	533.36	0	0	535.30	537.75
10.226	544.91	544.18	541.18	538.94	536.02	533.92	0	0	536.46	538.91
11.223	545.94	545.21	542.12	539.83	536.73	534.48	0	0	537.53	540.20
12.219	546.94	546.14	543.03	540.65	537.44	535.07	0	0	538.69	541.23
13.216	547.87	547.08	543.94	541.48	538.15	535.61	0	0	539.80	542.43
14.213	548.81	547.99	544.80	542.30	538.85	536.23	0	0	540.96	543.50
15.209	549.71	548.87	545.65	543.06	539.53	536.82	0	0	542.03	544.70
16.206	550.59	549.74	546.47	543.86	540.21	537.41	0	0	543.23	545.72
17.202	551.41	550.56	547.29	544.62	540.92	537.97	0	0	544.25	546.87
18.199	552.25	551.41	548.08	545.35	541.59	538.62	0	0	545.32	547.98
19.195	553.07	552.20	548.84	546.12	542.27	539.21	0	0	546.38	549.04
20.192	553.86	552.98	549.60	546.85	542.95	539.80	0	0	547.49	550.20
21.189	554.64	553.74	550.36	547.55	543.62	540.42	0	0	548.56	551.30

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
13	7	TILE INSERT	0.111	.010	.020	5.917E 05	2.066E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.5	1294	39.65	40.01	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0282	1.248	3794	2.496E-05	7.637E-08	1.240E 06	1.813E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.915	2.866	17.306	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.185	555.43	554.50	551.12	548.28	544.30	541.03	0	0	549.67	552.28
23.182	556.16	555.25	551.85	548.98	544.97	541.62	0	0	550.68	553.43
24.178	556.91	555.98	552.58	549.71	545.62	542.27	0	0	551.75	554.44

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
13	7	TILE INSERT	0.111	.010	.020	5.917E 05	2.066E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.5	1294	39.65	40.01	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0282	1.248	3794	2.496E-05	7.637E-08	1.240E 06	1.813E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.915	2.866	17.306	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
6.546	1
13.536	2
19.319	3

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
14	7	TILE INSERT	0.111	.010	.020	8.345E 05	2.914E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1299	29.67	30.01	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0396	1.763	3802	3.509E-05	7.631E-08	1.748E 06	2.156E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.886	2.917	13.249	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.12	.080	570.17	5.004E-04	.0232	6.090E-04	.0282	6.831E-04	.0317	5.930E-04	.0275
4.61	.089	663.91	2.657E-03	.1232	3.340E-03	.1549	3.833E-03	.1777	3.236E-03	.1501
5.10	.099	599.43	1.089E-03	.0505	1.337E-03	.0620	1.509E-03	.0700	1.300E-03	.0603
5.58	.108	570.17	5.005E-04	.0232	6.090E-04	.0282	6.831E-04	.0317	5.930E-04	.0275
7.02	.136	572.67	5.480E-04	.0254	6.674E-04	.0310	7.490E-04	.0347	6.498E-04	.0301
7.49	.145	700.74	3.768E-03	.1747	4.813E-03	.2232	5.588E-03	.2591	4.652E-03	.2158
7.96	.154	701.00	3.776E-03	.1751	4.824E-03	.2237	5.602E-03	.2598	4.663E-03	.2163
8.43	.163	708.69	4.024E-03	.1866	5.160E-03	.2393	6.007E-03	.2786	4.984E-03	.2312
8.90	.172	707.77	3.994E-03	.1852	5.119E-03	.2374	5.958E-03	.2763	4.946E-03	.2294
9.36	.181	708.98	4.034E-03	.1871	5.173E-03	.2399	6.023E-03	.2793	4.997E-03	.2317
9.82	.190	712.65	4.154E-03	.1927	5.337E-03	.2475	6.222E-03	.2886	5.154E-03	.2390
10.28	.199	708.73	4.026E-03	.1867	5.162E-03	.2394	6.010E-03	.2787	4.987E-03	.2313
10.74	.208	721.24	4.441E-03	.2060	5.730E-03	.2657	6.702E-03	.3108	5.530E-03	.2565
11.19	.216	729.56	4.726E-03	.2192	6.123E-03	.2840	7.185E-03	.3332	5.906E-03	.2739
11.65	.225	732.00	4.811E-03	.2231	6.241E-03	.2895	7.331E-03	.3400	6.019E-03	.2791
12.10	.234	732.93	4.844E-03	.2246	6.287E-03	.2916	7.387E-03	.3426	6.062E-03	.2811
12.54	.242	734.57	4.901E-03	.2273	6.367E-03	.2953	7.486E-03	.3472	6.138E-03	.2847
12.99	.251	720.41	4.414E-03	.2047	5.692E-03	.2640	6.656E-03	.3087	5.494E-03	.2548
13.43	.260	737.98	5.022E-03	.2329	6.536E-03	.3031	7.695E-03	.3569	6.300E-03	.2921
13.87	.268	742.64	5.190E-03	.2407	6.771E-03	.3140	7.988E-03	.3704	6.523E-03	.3025
14.30	.277	744.01	5.239E-03	.2430	6.841E-03	.3172	8.075E-03	.3745	6.590E-03	.3056

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
14	7	TILE INSERT	0.111	.010	.020	8.345E 05	2.914E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1299	29.67	30.01	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0396	1.763	3802	3.509E-05	7.631E-08	1.748E 06	2.156E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.886	2.917	13.249	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
14.74	.285	747.31	5.360E-03	.2486	7.011E-03	.3251	8.287E-03	.3843	6.752E-03	.3131
15.17	.293	747.09	5.352E-03	.2482	7.000E-03	.3246	8.273E-03	.3837	6.741E-03	.3126
15.60	.302	732.86	4.842E-03	.2246	6.285E-03	.2915	7.384E-03	.3425	6.060E-03	.2810
16.03	.310	751.31	5.508E-03	.2554	7.221E-03	.3349	8.550E-03	.3965	6.952E-03	.3224
16.45	.318	752.62	5.559E-03	.2578	7.294E-03	.3382	8.642E-03	.4008	7.021E-03	.3256
16.87	.326	755.41	5.661E-03	.2626	7.440E-03	.3450	8.825E-03	.4093	7.160E-03	.3320
17.29	.334	755.12	5.651E-03	.2621	7.424E-03	.3443	8.806E-03	.4084	7.145E-03	.3314
17.71	.342	751.26	5.506E-03	.2554	7.218E-03	.3348	8.547E-03	.3964	6.949E-03	.3223
18.12	.350	738.57	5.045E-03	.2340	6.567E-03	.3046	7.734E-03	.3587	6.329E-03	.2935
18.54	.358	753.27	5.582E-03	.2589	7.326E-03	.3397	8.682E-03	.4026	7.052E-03	.3270
18.95	.366	754.42	5.625E-03	.2609	7.387E-03	.3426	8.759E-03	.4062	7.110E-03	.3297
19.35	.374	753.57	5.593E-03	.2594	7.342E-03	.3405	8.702E-03	.4036	7.067E-03	.3277
19.76	.382	752.36	5.548E-03	.2573	7.278E-03	.3375	8.622E-03	.3998	7.006E-03	.3249
20.16	.390	751.61	5.520E-03	.2560	7.238E-03	.3357	8.572E-03	.3975	6.968E-03	.3232
20.56	.397	728.57	4.695E-03	.2177	6.079E-03	.2819	7.131E-03	.3307	5.864E-03	.2719
20.96	.405	751.46	5.515E-03	.2558	7.231E-03	.3353	8.563E-03	.3971	6.961E-03	.3228
21.35	.413	758.28	5.772E-03	.2677	7.597E-03	.3523	9.024E-03	.4185	7.309E-03	.3390
21.75	.420	759.56	5.820E-03	.2699	7.667E-03	.3556	9.113E-03	.4226	7.376E-03	.3421
22.14	.428	758.43	5.777E-03	.2679	7.605E-03	.3527	9.034E-03	.4190	7.317E-03	.3393
22.52	.435	757.51	5.743E-03	.2663	7.556E-03	.3504	8.972E-03	.4161	7.270E-03	.3372
22.91	.443	756.94	5.721E-03	.2653	7.525E-03	.3490	8.933E-03	.4143	7.241E-03	.3358
23.29	.450	737.45	5.006E-03	.2322	6.513E-03	.3021	7.667E-03	.3556	6.278E-03	.2911

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
14	7	TILE INSERT	0.111	.010	.020	8.345E 05	2.914E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1299	29.67	30.01	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0396	1.763	3802	3.509E-05	7.631E-08	1.748E 06	2.156E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.886	2.917	13.249	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
23.67	.458	757.66	5.749E-03	.2666	7.564E-03	.3508	8.982E-03	.4166	7.278E-03	.3375
24.05	.465	759.08	5.803E-03	.2691	7.642E-03	.3544	9.081E-03	.4211	7.352E-03	.3409
24.42	.472	755.93	5.684E-03	.2636	7.471E-03	.3465	8.865E-03	.4111	7.190E-03	.3334
24.80	.479	753.01	5.574E-03	.2585	7.314E-03	.3392	8.668E-03	.4020	7.041E-03	.3265
25.17	.486	750.02	5.463E-03	.2534	7.157E-03	.3319	8.470E-03	.3928	6.891E-03	.3196
25.53	.494	740.91	5.131E-03	.2380	6.688E-03	.3102	7.884E-03	.3656	6.444E-03	.2989
25.90	.501	702.50	3.828E-03	.1775	4.894E-03	.2270	5.686E-03	.2637	4.730E-03	.2194

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
14	7	TILE INSERT	0.111	.010	.020	8.345E 05	2.914E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1299	29.67	30.01	30.00	.33	30.00	0

T-INF (DEG R)	P-INF (PSIA)	Q-INF (PSIA)	V-INF (FT/SEC)	RHO-INF (SLUG/FT3)	MU-INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0396	1.763	3802	3.509E-05	7.631E-08	1.748E 06	2.156E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.886	2.917	13.249	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.279	538.97	538.44	536.58	535.99	535.67	535.31	0	0	532.08	532.57
2.276	542.48	541.65	538.97	537.73	536.61	535.96	0	0	532.57	533.28
3.272	545.06	544.06	540.95	539.27	537.59	536.61	0	0	533.19	534.00
4.269	547.20	546.09	542.65	540.65	538.50	537.20	0	0	533.73	534.63
5.265	549.10	547.87	544.21	541.92	539.36	537.79	0	0	534.36	535.34
6.262	550.77	549.48	545.62	543.12	540.21	538.38	0	0	534.98	535.92
7.259	552.37	550.97	546.94	544.24	541.03	538.97	0	0	535.47	536.64
8.255	553.83	552.34	548.19	545.35	541.86	539.56	0	0	536.10	537.26
9.252	555.20	553.65	549.42	546.41	542.65	540.15	0	0	536.68	537.93
10.248	556.51	554.93	550.56	547.43	543.45	540.74	0	0	537.26	538.51
11.245	557.73	556.13	551.67	548.43	544.24	541.33	0	0	537.84	539.09
12.241	558.91	557.26	552.75	549.42	545.03	541.95	0	0	538.42	539.71
13.238	560.05	558.36	553.77	550.39	545.82	542.56	0	0	539.00	540.38
14.235	561.15	559.44	554.82	551.32	546.61	543.21	0	0	539.58	540.96
15.231	562.19	560.45	555.78	552.23	547.37	543.86	0	0	540.16	541.54
16.228	563.29	561.35	556.80	551.88	548.16	544.41	0	0	540.60	541.89
17.224	564.21	562.45	557.67	554.00	548.95	545.12	0	0	541.27	542.70
18.221	565.16	563.37	558.60	554.88	549.71	545.79	0	0	541.89	543.27
19.217	566.12	564.33	559.49	555.72	550.47	546.47	0	0	542.47	543.94
20.214	567.04	565.22	560.39	556.56	551.23	547.11	0	0	543.05	544.47
21.211	567.93	566.12	561.26	557.41	552.02	547.78	0	0	543.63	545.10

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
14	7	TILE INSERT	0.111	.010	.020	8.345E 05	2.914E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1299	29.67	30.01	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0396	1.763	3802	3.509E-05	7.631E-08	1.748E 06	2.156E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.886	2.917	13.249	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
14	7	TILE INSERT	0.111	.010	.020	8.345E 05	2.914E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1299	29.67	30.01	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0396	1.763	3802	3.509E-05	7.631E-08	1.748E 06	2.156E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.886	2.917	13.249	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
6.267	1
12.420	2
18.198	3

NASA/BI 0H60
V41B-E9A

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
15	7	TILE INSERT	0.111	.010	.020	8.266E 05	2.886E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.5	1300	19.89	20.02	30.00	10.11	20.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0393	1.749	3803	3.477E-05	7.636E-08	1.732E 06	2.147E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
26.679	2.866	25.070	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.892TO)	H(.892TO)/HREF
7.49	.145	579.53	5.722E-04	.0266	6.982E-04	.0325	7.846E-04	.0365	7.104E-04	.0331
7.90	.153	614.92	1.206E-03	.0562	1.491E-03	.0694	1.691E-03	.0787	1.519E-03	.0707
8.32	.161	617.73	1.169E-03	.0544	1.444E-03	.0673	1.637E-03	.0762	1.471E-03	.0685
8.73	.169	625.81	1.324E-03	.0617	1.641E-03	.0764	1.864E-03	.0868	1.672E-03	.0779
9.14	.177	630.90	1.396E-03	.0650	1.733E-03	.0807	1.970E-03	.0918	1.766E-03	.0822
9.54	.184	632.88	1.431E-03	.0666	1.777E-03	.0828	2.022E-03	.0942	1.811E-03	.0844
9.95	.192	634.23	1.455E-03	.0678	1.808E-03	.0842	2.058E-03	.0958	1.843E-03	.0858
10.36	.200	640.87	1.575E-03	.0734	1.963E-03	.0914	2.238E-03	.1042	2.001E-03	.0932
10.76	.208	632.28	1.420E-03	.0661	1.764E-03	.0821	2.007E-03	.0934	1.798E-03	.0837
11.16	.216	656.85	1.763E-03	.0821	2.205E-03	.1027	2.520E-03	.1174	2.248E-03	.1047
11.56	.224	656.38	1.869E-03	.0870	2.342E-03	.1091	2.682E-03	.1249	2.389E-03	.1113
11.96	.231	659.47	1.930E-03	.0899	2.422E-03	.1128	2.775E-03	.1292	2.470E-03	.1150
12.36	.239	665.93	2.064E-03	.0961	2.597E-03	.1209	2.982E-03	.1388	2.650E-03	.1234
12.76	.247	671.79	2.189E-03	.1019	2.760E-03	.1285	3.174E-03	.1478	2.817E-03	.1312
13.16	.254	668.99	2.129E-03	.0992	2.682E-03	.1249	3.082E-03	.1435	2.737E-03	.1274
13.55	.262	677.07	2.303E-03	.1072	2.910E-03	.1355	3.353E-03	.1561	2.971E-03	.1384
13.94	.270	688.51	2.556E-03	.1190	3.247E-03	.1512	3.753E-03	.1748	3.316E-03	.1544
14.33	.277	695.78	2.722E-03	.1267	3.468E-03	.1615	4.019E-03	.1872	3.543E-03	.1650
14.73	.285	698.85	2.793E-03	.1300	3.563E-03	.1659	4.134E-03	.1925	3.641E-03	.1696
15.11	.292	705.14	2.940E-03	.1369	3.762E-03	.1752	4.374E-03	.2037	3.845E-03	.1791
15.50	.300	708.89	3.029E-03	.1410	3.883E-03	.1808	4.520E-03	.2105	3.970E-03	.1849

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
15	7	TILE INSERT	0.111	.010	.020	8.266E 05	2.886E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.5	1300	19.89	20.02	30.00	10.11	20.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0393	1.748	3803	3.477E-05	7.636E-08	1.732E 06	2.147E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
26.679	2.866	25.070	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.892TO)	H(.892TO)/HREF
15.89	.307	687.91	2.543E-03	.1184	3.229E-03	.1504	3.732E-03	.1738	3.298E-03	.1536
16.27	.315	712.77	3.122E-03	.1454	4.010E-03	.1867	4.675E-03	.2177	4.100E-03	.1909
16.66	.322	717.31	3.232E-03	.1505	4.161E-03	.1938	4.859E-03	.2263	4.256E-03	.1982
17.04	.329	720.94	3.322E-03	.1547	4.284E-03	.1995	5.009E-03	.2333	4.382E-03	.2041
17.42	.337	723.54	3.386E-03	.1577	4.373E-03	.2036	5.118E-03	.2384	4.474E-03	.2083
17.80	.344	723.69	3.390E-03	.1579	4.376E-03	.2039	5.125E-03	.2386	4.479E-03	.2086
18.18	.351	718.96	3.273E-03	.1524	4.217E-03	.1964	4.927E-03	.2295	4.313E-03	.2009
18.56	.359	721.24	3.329E-03	.1550	4.294E-03	.2000	5.022E-03	.2339	4.393E-03	.2046
18.93	.366	723.53	3.512E-03	.1635	4.546E-03	.2117	5.332E-03	.2483	4.652E-03	.2167
19.31	.373	724.24	3.530E-03	.1644	4.571E-03	.2129	5.362E-03	.2497	4.678E-03	.2179
19.68	.380	724.49	3.536E-03	.1647	4.580E-03	.2133	5.373E-03	.2502	4.687E-03	.2183
20.05	.388	722.21	3.479E-03	.1620	4.500E-03	.2096	5.275E-03	.2456	4.605E-03	.2145
20.42	.395	725.57	3.462E-03	.1612	4.478E-03	.2085	5.247E-03	.2444	4.582E-03	.2134
20.79	.402	705.22	2.942E-03	.1370	3.766E-03	.1754	4.378E-03	.2039	3.844E-03	.1792
21.16	.409	724.65	3.414E-03	.1590	4.411E-03	.2054	5.166E-03	.2406	4.513E-03	.2102
21.52	.416	732.72	3.619E-03	.1685	4.695E-03	.2186	5.515E-03	.2568	4.805E-03	.2238
21.89	.423	734.39	3.662E-03	.1705	4.755E-03	.2214	5.589E-03	.2603	4.867E-03	.2267
22.25	.430	735.07	3.679E-03	.1713	4.779E-03	.2226	5.619E-03	.2617	4.892E-03	.2278
22.61	.437	733.85	3.648E-03	.1699	4.735E-03	.2205	5.565E-03	.2592	4.847E-03	.2257
22.97	.444	733.64	3.642E-03	.1696	4.728E-03	.2202	5.556E-03	.2587	4.840E-03	.2254
23.33	.451	715.08	3.179E-03	.1480	4.087E-03	.1903	4.769E-03	.2221	4.180E-03	.1947
23.69	.458	732.17	3.605E-03	.1679	4.676E-03	.2177	5.491E-03	.2557	4.786E-03	.2229

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
15	7	TILE INSERT	0.111	.010	.020	8.266E 05	2.886E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.5	1300	19.89	20.02	30.00	10.11	20.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0393	1.748	3803	3.477E-05	7.636E-08	1.732E 06	2.147E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
26.679	2.866	25.070	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.892TO)	H(.892TO)/HREF
24.05	.465	735.31	3.685E-03	.1716	4.788E-03	.2230	5.630E-03	.2622	4.902E-03	.2283
24.41	.472	732.93	3.624E-03	.1688	4.703E-03	.2190	5.525E-03	.2573	4.814E-03	.2242
24.76	.479	729.78	3.519E-03	.1639	4.556E-03	.2122	5.343E-03	.2488	4.662E-03	.2171
25.11	.485	727.47	3.486E-03	.1623	4.510E-03	.2100	5.287E-03	.2462	4.615E-03	.2149
25.46	.492	723.84	3.395E-03	.1581	4.384E-03	.2042	5.132E-03	.2390	4.485E-03	.2089
25.81	.499	697.94	2.773E-03	.1291	3.536E-03	.1647	4.101E-03	.1910	3.613E-03	.1683
26.16	.506	617.03	1.158E-03	.0539	1.430E-03	.0666	1.621E-03	.0755	1.457E-03	.0678

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
15	7	TILE INSERT	0.111	.010	.020	8.266E 05	2.886E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.5	1300	19.89	20.02	30.00	10.11	20.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0393	1.748	3803	3.477E-05	7.636E-08	1.732E 06	2.147E-02	76

ICIAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
26.679	2.866	25.070	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.257	541.33	540.47	538.47	537.82	537.41	537.08	0	0	529.03	529.34
2.254	544.80	543.52	540.59	539.30	538.26	537.56	0	0	529.16	529.48
3.250	547.35	545.85	542.39	540.62	539.03	538.03	0	0	529.30	529.48
4.247	549.48	547.81	544.00	541.86	539.74	538.44	0	0	529.39	529.66
5.243	551.35	549.57	545.44	543.00	540.47	538.91	0	0	529.57	529.70
6.240	553.04	551.15	546.79	544.15	541.21	539.36	0	0	529.61	529.84
7.237	554.59	552.58	548.08	545.21	541.95	539.66	0	0	529.75	529.97
8.233	556.01	553.92	549.31	546.23	542.65	540.30	0	0	529.84	530.02
9.230	557.32	555.20	550.42	547.23	543.36	540.77	0	0	529.93	530.06
10.226	558.57	556.39	551.53	548.10	544.09	541.27	0	0	530.02	530.24
11.223	559.73	557.52	552.58	549.10	544.80	541.77	0	0	530.06	530.28
12.219	560.89	558.62	553.57	550.01	545.50	542.30	0	0	530.10	530.33
13.216	561.96	559.64	554.53	550.88	546.20	542.63	0	0	530.24	530.42
14.213	562.97	560.65	555.46	551.73	546.88	543.33	0	0	530.28	530.51
15.209	563.95	561.61	556.39	552.58	547.61	543.89	0	0	530.37	530.55
16.206	564.90	562.54	557.29	553.42	548.28	544.44	0	0	530.46	530.69
17.202	565.86	563.46	558.16	554.21	548.98	545.03	0	0	530.55	530.69
18.199	566.75	564.33	559.00	555.02	549.69	545.59	0	0	530.55	530.82
19.195	567.62	565.19	559.84	555.78	550.39	546.14	0	0	530.78	530.82
20.192	568.51	566.03	560.63	556.56	551.03	546.73	0	0	530.82	531.00
21.189	569.34	566.87	561.44	557.32	551.73	547.37	0	0	530.78	531.05

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
15	7	TILE INSERT	0.111	.010	.020	8.266E 05	2.886E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.5	1300	19.89	20.02	30.00	10.11	20.00	0

T - INF (DEG R)	P - INF (PSIA)	U - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0393	1.748	3803	3.477E-05	7.636E-08	1.732E 06	2.147E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
26.679	2.866	25.070	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.185	570.18	567.67	562.22	558.07	552.40	547.93	0	0	530.91	531.14
23.122	570.95	568.45	563.00	558.80	553.10	548.55	0	0	531.00	531.14
24.178	571.73	569.26	563.75	559.52	553.77	549.13	0	0	531.09	531.31
25.175	572.50	570.00	564.50	560.25	554.44	549.74	0	0	531.18	531.31
26.171	573.28	570.78	565.25	560.97	555.11	550.33	0	0	531.22	531.45
27.168	574.02	571.50	565.97	561.67	555.78	550.94	0	0	531.31	531.45
28.165	574.80	572.24	566.69	562.39	556.45	551.55	0	0	531.45	531.58
29.161	575.48	572.96	567.44	563.08	557.12	552.17	0	0	531.49	531.63
30.158	576.20	573.68	568.16	563.81	557.78	552.81	0	0	531.54	531.72

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
15	7	TILE INSERT	0.111	.010	.020	8.266E 05	2.886E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.5	1300	19.89	20.02	30.00	10.11	20.00	0

T - INF (DEG R)	P - INF (PSIA)	U - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0393	1.748	3803	3.477E-05	7.636E-08	1.732E 06	2.147E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
26.679	2.866	25.070	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.501	1
12.453	2
12.749	3
24.713	4

NASA/RI OH69
V41B-E9A

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
16	7	TILE INSERT	0.111	.010	.015	7.114E 05	1.863E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.1	1299	29.71	30.00	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.0	.0340	1.507	3802	2.999E-05	7.652E-08	1.490E 06	1.994E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.254	2.839	15.660	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.12	.080	566.51	5.240E-04	.0263	6.369E-04	.0319	7.138E-04	.0358	6.203E-04	.0311
4.61	.089	671.59	2.802E-03	.1405	3.533E-03	.1772	4.064E-03	.2038	3.422E-03	.1716
5.10	.099	596.17	1.073E-03	.0538	1.316E-03	.0660	1.484E-03	.0744	1.280E-03	.0642
5.58	.108	574.83	6.709E-04	.0336	8.174E-04	.0410	9.177E-04	.0460	7.959E-04	.0399
6.06	.117	563.58	4.736E-04	.0238	5.751E-04	.0288	6.442E-04	.0323	5.602E-04	.0281
7.02	.136	560.11	4.147E-04	.0208	5.031E-04	.0252	5.632E-04	.0282	4.901E-04	.0246
7.49	.145	633.18	1.853E-03	.0930	2.302E-03	.1155	2.620E-03	.1314	2.235E-03	.1121
7.96	.154	653.78	2.338E-03	.1173	2.927E-03	.1468	3.349E-03	.1680	2.839E-03	.1424
8.43	.163	677.97	2.978E-03	.1493	3.765E-03	.1888	4.338E-03	.2176	3.645E-03	.1828
8.90	.172	683.79	3.140E-03	.1575	3.980E-03	.1996	4.595E-03	.2305	3.852E-03	.1932
9.36	.181	685.23	3.181E-03	.1595	4.034E-03	.2023	4.659E-03	.2337	3.904E-03	.1958
9.82	.190	688.83	3.283E-03	.1647	4.171E-03	.2092	4.823E-03	.2419	4.035E-03	.2024
10.28	.199	686.19	3.208E-03	.1609	4.071E-03	.2042	4.703E-03	.2359	3.939E-03	.1976
10.74	.208	702.65	3.686E-03	.1849	4.713E-03	.2363	5.474E-03	.2746	4.555E-03	.2284
11.19	.216	709.37	3.988E-03	.1950	4.986E-03	.2501	5.806E-03	.2912	4.817E-03	.2416
11.65	.225	712.75	3.991E-03	.2002	5.127E-03	.2571	5.977E-03	.2998	4.952E-03	.2484
12.10	.234	717.41	4.135E-03	.2074	5.324E-03	.2670	6.217E-03	.3118	5.140E-03	.2578
12.54	.242	720.32	4.226E-03	.2119	5.448E-03	.2732	6.370E-03	.3194	5.259E-03	.2638
12.99	.251	707.70	3.838E-03	.1925	4.918E-03	.2467	5.723E-03	.2870	4.752E-03	.2383
13.43	.260	727.02	4.438E-03	.2226	5.741E-03	.2879	6.729E-03	.3375	5.539E-03	.2778
13.87	.268	730.91	4.563E-03	.2288	5.914E-03	.2966	6.943E-03	.3482	5.705E-03	.2861

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
16	7	TILE INSERT	0.111	.010	.015	7.114E 05	1.863E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.1	1299	29.71	30.00	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.0	.0340	1.507	3802	2.999E-05	7.652E-08	1.490E 06	1.994E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.254	2.839	15.660	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
14.30	.277	734.04	4.664E-03	.2339	6.056E-03	.3037	7.118E-03	.3570	5.840E-03	.2929
14.74	.285	735.66	4.717E-03	.2366	6.130E-03	.3075	7.210E-03	.3616	5.911E-03	.2964
15.17	.293	733.56	4.649E-03	.2332	6.035E-03	.3027	7.092E-03	.3557	5.819E-03	.2919
15.60	.302	726.62	4.426E-03	.2220	5.724E-03	.2871	6.708E-03	.3364	5.523E-03	.2770
16.03	.310	740.57	4.880E-03	.2447	6.358E-03	.3189	7.493E-03	.3758	6.128E-03	.3073
16.45	.318	742.98	4.960E-03	.2488	6.471E-03	.3246	7.634E-03	.3829	6.236E-03	.3127
16.87	.326	744.37	5.007E-03	.2511	6.538E-03	.3279	7.717E-03	.3870	6.298E-03	.3159
17.29	.334	744.96	5.027E-03	.2521	6.566E-03	.3293	7.753E-03	.3888	6.326E-03	.3172
17.71	.342	741.47	4.910E-03	.2463	6.401E-03	.3210	7.547E-03	.3785	6.168E-03	.3094
18.12	.350	733.90	4.661E-03	.2337	6.051E-03	.3035	7.112E-03	.3567	5.835E-03	.2926
18.54	.358	743.61	4.982E-03	.2499	6.502E-03	.3261	7.673E-03	.3848	6.265E-03	.3142
18.95	.366	744.71	5.019E-03	.2517	6.555E-03	.3287	7.738E-03	.3881	6.315E-03	.3167
19.35	.374	744.24	5.003E-03	.2509	6.532E-03	.3276	7.710E-03	.3867	6.294E-03	.3156
19.76	.382	744.46	5.011E-03	.2513	6.543E-03	.3281	7.724E-03	.3874	6.304E-03	.3161
20.16	.390	742.34	4.940E-03	.2477	6.443E-03	.3231	7.598E-03	.3811	6.208E-03	.3113
20.56	.397	719.82	4.212E-03	.2112	5.429E-03	.2723	6.346E-03	.3183	5.241E-03	.2628
20.96	.405	745.24	5.038E-03	.2527	6.581E-03	.3300	7.771E-03	.3897	6.340E-03	.3179
21.35	.413	750.94	5.232E-03	.2624	6.856E-03	.3439	8.116E-03	.4070	6.602E-03	.3311
21.75	.420	752.99	5.303E-03	.2660	6.957E-03	.3489	8.243E-03	.4134	6.698E-03	.3359
22.14	.428	751.66	5.257E-03	.2636	6.892E-03	.3456	8.161E-03	.4093	6.635E-03	.3328
22.52	.435	749.73	5.191E-03	.2603	6.798E-03	.3409	8.043E-03	.4034	6.546E-03	.3283
22.91	.443	744.87	5.026E-03	.2520	6.563E-03	.3292	7.749E-03	.3886	6.323E-03	.3171

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	[illegible]	REK
16	7	TILE INSERT	0.111	.010	.015	7.114E 05	1.863E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.1	1299	29.71	30.00	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.0	.0340	1.507	3802	2.999E-05	7.652E-08	1.490E 06	1.994E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.254	2.839	15.660	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
23.29	.450	735.12	4.702E-03	.2358	6.108E-03	.3063	7.183E-03	.3602	5.889E-03	.2954
23.67	.458	749.31	5.177E-03	.2596	6.778E-03	.3399	8.017E-03	.4021	6.527E-03	.3273
24.05	.465	750.82	5.229E-03	.2622	6.851E-03	.3436	8.110E-03	.4067	6.597E-03	.3309
24.42	.472	745.46	5.046E-03	.2531	6.592E-03	.3306	7.785E-03	.3904	6.351E-03	.3185
24.80	.479	744.27	5.006E-03	.2511	6.536E-03	.3278	7.714E-03	.3869	6.297E-03	.3158
25.17	.486	740.80	4.890E-03	.2452	6.372E-03	.3196	7.510E-03	.3766	6.141E-03	.3080
25.53	.494	724.23	4.352E-03	.2182	5.622E-03	.2819	6.582E-03	.3301	5.425E-03	.2721
25.90	.501	680.76	3.058E-03	.1534	3.871E-03	.1941	4.464E-03	.2239	3.747E-03	.1879

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
16	7	TILE INSERT	0.111	.010	.015	7.114E 05	1.863E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.1	1299	29.71	30.00	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.0	.0340	1.507	3802	2.999E-05	7.652E-08	1.490E 06	1.994E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.254	2.839	15.660	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.245	537.73	537.23	535.55	535.07	534.72	534.39	0	0	527.91	528.49
2.242	541.03	540.30	537.79	536.70	535.67	535.05	0	0	528.31	529.03
3.238	543.45	542.53	539.65	538.09	536.55	535.64	0	0	528.80	529.57
4.235	545.41	544.41	541.21	539.36	537.38	536.17	0	0	529.30	530.19
5.231	547.17	546.06	542.62	540.53	538.21	536.76	0	0	529.88	530.73
6.228	548.78	547.55	543.94	541.65	538.97	537.29	0	0	530.33	531.22
7.225	550.24	548.95	545.18	542.74	539.74	537.85	0	0	530.87	531.81
8.221	551.61	550.24	546.38	543.77	540.50	538.41	0	0	531.31	532.34
9.218	552.87	551.47	547.49	544.74	541.24	538.91	0	0	531.81	532.88
10.214	554.06	552.63	548.55	545.68	542.01	539.50	0	0	532.34	533.42
11.211	555.23	553.74	549.57	546.61	542.74	540.06	0	0	532.88	533.91
12.207	556.30	554.79	550.59	547.52	543.47	540.62	0	0	533.37	534.45
13.204	557.38	555.81	551.55	548.40	544.21	541.21	0	0	533.82	534.94
14.201	558.39	556.80	552.49	549.25	544.94	541.77	0	0	534.36	535.47
15.197	559.35	557.75	553.39	550.12	545.65	542.36	0	0	534.85	536.01
16.194	560.31	558.68	554.29	550.94	546.38	542.98	0	0	535.34	536.50
17.190	561.23	559.58	555.14	551.76	547.08	543.56	0	0	535.83	536.95
18.187	562.10	560.36	556.04	552.58	547.78	544.18	0	0	536.32	537.48
19.183	563.00	561.35	556.82	553.36	548.52	544.80	0	0	536.81	537.97
20.180	563.84	562.16	557.64	554.15	549.22	545.38	0	0	537.30	538.38
21.177	564.67	563.00	558.45	554.91	549.92	546.03	0	0	537.80	538.91

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
16	7	TILE INSERT	0.111	.010	.015	7.114E 05	1.863E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.1	1299	29.71	30.00	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.0	.0340	1.507	3802	2.999E-05	7.652E-08	1.490E 06	1.994E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.254	2.839	15.660	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.173	565.51	563.81	559.23	555.69	550.62	546.67	0	0	538.29	539.40
23.170	566.32	564.59	560.02	556.42	551.32	547.29	0	0	538.73	539.98

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
16	7	TILE INSERT	0.111	.010	.015	7.114E 05	1.863E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.1	1299	29.71	30.00	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.0	.0340	1.507	3802	2.999E-05	7.652E-08	1.490E 06	1.994E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.254	2.839	15.660	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.010	1
13.117	2
19.348	3

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
17	7	TILE INSERT	0.111	.010	.015	7.079E 05	1.854E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA+PREBEND	ALPHA+SECTOR	ALPHA-NOM	YAW
7.96	319.0	1298	39.59	40.03	30.00	-9.59	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.497	3800	2.983E-05	7.643E-08	1.483E 06	1.987E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
28.583	2.912	26.948	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.93*TO)	H(.93*TO)/HREF
6.63	.128	593.16	7.749E-04	.0390	9.462E-04	.0476	1.064E-03	.0535	8.799E-04	.0443
7.20	.139	657.60	1.860E-03	.0936	2.313E-03	.1164	2.634E-03	.1326	2.135E-03	.1075
7.77	.150	757.80	4.180E-03	.2104	5.404E-03	.2720	6.337E-03	.3189	4.913E-03	.2472
8.33	.161	770.53	4.531E-03	.2280	5.894E-03	.2966	6.945E-03	.3495	5.345E-03	.2690
8.89	.172	779.31	4.783E-03	.2407	6.249E-03	.3145	7.390E-03	.3719	5.656E-03	.2847
9.45	.183	785.09	4.953E-03	.2493	6.491E-03	.3267	7.696E-03	.3873	5.868E-03	.2953
10.00	.193	791.03	5.132E-03	.2583	6.748E-03	.3396	8.021E-03	.4037	6.092E-03	.3066
10.54	.204	787.14	5.015E-03	.2524	6.579E-03	.3311	7.807E-03	.3929	5.945E-03	.2992
11.08	.214	809.27	5.712E-03	.2875	7.590E-03	.3820	9.102E-03	.4581	6.822E-03	.3433
11.62	.225	815.25	5.908E-03	.2973	7.879E-03	.3965	9.478E-03	.4770	7.071E-03	.3559
12.15	.235	816.18	5.939E-03	.2989	7.925E-03	.3988	9.537E-03	.4800	7.111E-03	.3579
12.68	.245	814.78	5.892E-03	.2966	7.856E-03	.3954	9.448E-03	.4755	7.052E-03	.3549
13.20	.255	811.59	5.788E-03	.2913	7.702E-03	.3876	9.247E-03	.4654	6.919E-03	.3482
13.72	.265	822.63	6.154E-03	.3097	8.246E-03	.4150	9.959E-03	.5012	7.386E-03	.3717
14.23	.275	824.22	6.208E-03	.3124	8.327E-03	.4191	1.007E-02	.5066	7.455E-03	.3752
14.74	.285	830.42	6.419E-03	.3230	8.646E-03	.4351	1.049E-02	.5278	7.727E-03	.3889
15.24	.295	826.09	6.271E-03	.3156	8.422E-03	.4239	1.019E-02	.5129	7.537E-03	.3793
15.74	.304	812.38	5.814E-03	.2926	7.741E-03	.3896	9.297E-03	.4679	6.952E-03	.3499
16.23	.314	829.21	6.378E-03	.3210	8.583E-03	.4319	1.040E-02	.5236	7.674E-03	.3862
16.72	.323	833.00	6.508E-03	.3275	8.781E-03	.4419	1.067E-02	.5369	7.843E-03	.3947
17.20	.333	832.93	6.506E-03	.3274	8.778E-03	.4418	1.066E-02	.5367	7.840E-03	.3946

L = [illegible] FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
17	7	TILE INSERT	0.111	.010	.015	7.079E 05	1.854E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.0	1298	39.59	40.03	30.00	-9.59	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.497	3800	2.983E-05	7.643E-08	1.483E 06	1.987E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.583	2.912	26.948	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.68	.342	832.37	6.487E-03	.3265	8.748E-03	.4403	1.062E-02	.5347	7.815E-03	.3933
18.15	.351	812.74	5.826E-03	.2932	7.758E-03	.3904	9.320E-03	.4691	6.967E-03	.3506
18.62	.360	829.38	6.384E-03	.3213	8.593E-03	.4324	1.042E-02	.5243	7.682E-03	.3866
19.09	.369	832.19	6.481E-03	.3262	8.739E-03	.4398	1.061E-02	.5341	7.807E-03	.3929
19.55	.378	831.17	6.445E-03	.3244	8.686E-03	.4371	1.054E-02	.5305	7.762E-03	.3906
20.00	.387	828.49	6.354E-03	.3198	8.546E-03	.4301	1.036E-02	.5212	7.643E-03	.3846
20.45	.395	826.75	6.294E-03	.3168	8.457E-03	.4256	1.024E-02	.5152	7.567E-03	.3808
20.90	.404	809.79	5.730E-03	.2884	7.617E-03	.3833	9.137E-03	.4598	6.846E-03	.3445
21.34	.413	832.12	6.479E-03	.3261	8.736E-03	.4397	1.061E-02	.5339	7.804E-03	.3928
21.78	.421	835.82	6.607E-03	.3325	8.932E-03	.4495	1.087E-02	.5471	7.971E-03	.4012
22.21	.429	836.28	6.620E-03	.3332	8.952E-03	.4505	1.090E-02	.5485	7.988E-03	.4020
22.63	.438	835.44	6.594E-03	.3319	8.912E-03	.4485	1.084E-02	.5457	7.954E-03	.4003
23.06	.446	831.45	6.456E-03	.3249	8.701E-03	.4379	1.056E-02	.5316	7.775E-03	.3913
23.47	.454	812.74	5.827E-03	.2933	7.759E-03	.3905	9.321E-03	.4691	6.968E-03	.3507
23.88	.462	834.16	6.550E-03	.3296	8.844E-03	.4451	1.075E-02	.5412	7.896E-03	.3974
24.29	.470	834.71	6.569E-03	.3306	8.874E-03	.4466	1.079E-02	.5432	7.921E-03	.3987
24.69	.477	830.14	6.411E-03	.3226	8.633E-03	.4345	1.047E-02	.5270	7.717E-03	.3884
25.09	.485	827.55	6.322E-03	.3182	8.499E-03	.4277	1.029E-02	.5180	7.603E-03	.3826
25.49	.493	823.96	6.201E-03	.3121	8.316E-03	.4185	1.005E-02	.5058	7.446E-03	.3747
25.87	.500	790.62	5.122E-03	.2578	6.733E-03	.3388	8.002E-03	.4027	6.079E-03	.3059

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
17	7	TILE INSERT	0.111	.010	.015	7.079E 05	1.854E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.0	1298	39.59	40.03	30.00	-9.59	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.497	3800	2.983E-05	7.643E-08	1.483E 06	1.987E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
28.583	2.912	26.948	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.277	539.62	539.62	538.24	537.76	537.41	537.35	0	0	530.02	531.90
2.274	542.77	542.59	540.53	539.59	538.68	538.09	0	0	531.27	533.51
3.270	545.03	544.74	542.39	541.06	539.71	538.82	0	0	532.66	535.03
4.267	546.91	546.53	543.97	542.39	540.65	539.53	0	0	534.00	536.64
5.263	548.57	548.14	545.35	543.59	541.50	540.18	0	0	535.43	538.06
6.260	550.07	549.54	546.67	544.71	542.39	540.80	0	0	536.81	539.62
7.257	551.50	550.91	547.87	545.79	543.18	541.45	0	0	538.24	541.05
8.253	552.78	552.17	549.04	546.82	543.97	542.03	0	0	539.62	542.52
9.250	554.03	553.36	550.12	547.81	544.77	542.68	0	0	540.96	543.90
10.246	555.20	554.47	551.18	548.75	545.56	543.27	0	0	542.29	545.36
11.243	556.33	555.57	552.23	549.69	546.32	543.89	0	0	543.63	546.74
12.239	557.41	556.62	553.22	550.62	547.08	544.50	0	0	545.01	548.02
13.236	558.45	557.61	554.18	551.50	547.84	545.15	0	0	546.29	549.35
14.233	559.44	558.60	555.11	552.37	548.60	545.76	0	0	547.67	550.82
15.229	560.39	559.55	556.01	553.22	549.33	546.41	0	0	548.96	552.06
16.226	561.35	560.48	556.88	554.06	550.09	547.02	0	0	550.29	553.34
17.222	562.28	561.38	557.78	554.91	550.85	547.67	0	0	551.57	554.71
18.219	563.17	562.28	558.62	555.72	551.58	548.34	0	0	552.90	555.99
19.215	564.04	563.11	559.47	556.48	552.31	548.98	0	0	554.13	557.27
20.212	564.90	563.95	560.28	557.29	553.04	549.60	0	0	555.46	558.55
21.209	565.74	564.79	561.12	558.07	553.77	550.30	0	0	556.74	559.83

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
17	7	TILE INSERT	0.111	.010	.015	7.079E 05	1.854E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.0	1298	39.59	40.03	30.00	-9.59	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.497	3800	2.983E-05	7.643E-08	1.483E 06	1.987E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.583	2.912	26.948	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.205	566.58	565.63	561.93	558.86	554.50	550.97	0	0	558.02	561.11
23.202	567.38	566.40	562.68	559.64	555.23	551.61	0	0	559.30	562.30
24.198	568.19	567.21	563.49	560.39	555.92	552.25	0	0	560.53	563.66
25.195	569.00	567.99	564.24	561.12	556.65	552.95	0	0	561.77	564.89
26.191	569.77	568.77	565.02	561.90	557.38	553.60	0	0	563.04	566.08
27.188	570.52	569.54	565.77	562.62	558.07	554.29	0	0	564.19	567.35
28.185	571.33	570.23	566.46	563.37	558.71	554.93	0	0	565.51	568.54
29.181	572.07	571.07	567.27	564.07	559.47	555.63	0	0	566.69	569.77
30.178	572.79	571.79	568.02	564.82	560.19	556.27	0	0	567.97	571.04
31.174	573.54	572.50	568.77	565.54	560.89	556.97	0	0	569.20	572.18
32.171	574.28	573.25	569.49	566.26	561.61	557.64	0	0	570.43	573.45
33.167	575.00	573.96	570.18	566.98	562.28	558.31	0	0	571.65	574.63

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
17	7	TILE INSERT	0.111	.010	.015	7.079E 05	1.854E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA=MODEL UNCORRECTED	ALPHA=MODEL CORRECTED	ALPHA=PREBEND	ALPHA=SECTOR	ALPHA=NOM	YAW
7.96	319.0	1298	39.59	40.03	30.00	-9.59	40.00	0

T = INF (DEG R)	P = INF (PSIA)	Q = INF (PSIA)	V = INF (FT/SEC)	RHO = INF (SLUG/FT3)	MU = INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.497	3800	2.583E-05	7.643E-08	1.483E 06	1.987E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.363	2.912	26.948	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
6.397	1
12.898	2
19.886	3
27.275	4

NASA/RI OH89
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
18	7	TILE INSERT	0.111	.010	.015	4.758E 05	1.246E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	207.9	1277	29.80	29.99	30.00	.20	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0224	.987	3769	1.999E-05	7.557E-08	9.969E 05	1.609E-02	86

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.323	2.930	37.678	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.12	.080	575.90	3.299E-04	.0205	4.033E-04	.0251	4.539E-04	.0282	3.925E-04	.0244
4.61	.089	664.38	1.587E-03	.0987	2.005E-03	.1246	2.309E-03	.1435	1.941E-03	.1207
5.10	.099	581.12	3.920E-04	.0244	4.801E-04	.0298	5.408E-04	.0336	4.671E-04	.0290
7.02	.136	575.56	3.259E-04	.0203	3.985E-04	.0248	4.483E-04	.0279	3.878E-04	.0241
7.49	.145	639.50	1.185E-03	.0737	1.482E-03	.0921	1.694E-03	.1053	1.438E-03	.0894
7.96	.154	640.64	1.203E-03	.0748	1.505E-03	.0935	1.720E-03	.1070	1.459E-03	.0907
8.43	.163	648.05	1.318E-03	.0819	1.653E-03	.1028	1.895E-03	.1178	1.603E-03	.0996
8.90	.172	647.08	1.303E-03	.0810	1.634E-03	.1016	1.872E-03	.1163	1.584E-03	.0985
9.36	.181	645.24	1.274E-03	.0792	1.596E-03	.0992	1.828E-03	.1136	1.548E-03	.0962
9.82	.190	641.26	1.212E-03	.0754	1.517E-03	.0943	1.735E-03	.1079	1.471E-03	.0915
10.28	.199	629.96	1.043E-03	.0648	1.299E-03	.0808	1.481E-03	.0921	1.261E-03	.0784
10.74	.208	639.37	1.183E-03	.0736	1.480E-03	.0920	1.691E-03	.1051	1.435E-03	.0892
11.19	.216	641.58	1.217E-03	.0757	1.523E-03	.0947	1.742E-03	.1083	1.477E-03	.0918
11.65	.225	640.39	1.199E-03	.0745	1.500E-03	.0932	1.715E-03	.1066	1.455E-03	.0904
12.10	.234	638.60	1.172E-03	.0728	1.465E-03	.0911	1.674E-03	.1041	1.421E-03	.0883
12.54	.242	636.53	1.140E-03	.0709	1.424E-03	.0885	1.627E-03	.1011	1.382E-03	.0859
12.99	.251	630.67	1.053E-03	.0655	1.313E-03	.0816	1.497E-03	.0930	1.274E-03	.0792
13.43	.260	636.95	1.147E-03	.0713	1.433E-03	.0891	1.637E-03	.1017	1.390E-03	.0864
13.87	.268	639.94	1.192E-03	.0741	1.491E-03	.0927	1.705E-03	.1060	1.446E-03	.0899
14.30	.277	640.58	1.202E-03	.0747	1.504E-03	.0935	1.719E-03	.1069	1.458E-03	.0906
14.74	.285	640.64	1.203E-03	.0748	1.505E-03	.0935	1.721E-03	.1070	1.459E-03	.0907

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
18	7	TILE INSERT	0.111	.010	.015	4.758E 05	1.246E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	207.9	1277	29.80	29.99	30.00	.20	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0224	.987	3769	1.999E-05	7.557E-08	9.969E 05	1.609E-02	86

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.323	2.930	37.678	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.17	.293	632.23	1.076E-03	.0669	1.342E-03	.0834	1.531E-03	.0952	1.302E-03	.0810
15.60	.302	637.21	1.151E-03	.0715	1.438E-03	.0894	1.643E-03	.1021	1.395E-03	.0867
16.03	.310	642.63	1.233E-03	.0767	1.544E-03	.0960	1.767E-03	.1098	1.498E-03	.0931
16.45	.318	644.28	1.259E-03	.0783	1.577E-03	.0980	1.805E-03	.1122	1.529E-03	.0951
16.87	.326	645.91	1.300E-03	.0808	1.630E-03	.1014	1.868E-03	.1161	1.581E-03	.0983
17.29	.334	649.84	1.346E-03	.0837	1.690E-03	.1051	1.938E-03	.1205	1.639E-03	.1019
17.71	.342	647.08	1.303E-03	.0810	1.634E-03	.1016	1.872E-03	.1164	1.584E-03	.0985
18.12	.350	647.73	1.313E-03	.0816	1.647E-03	.1024	1.887E-03	.1173	1.597E-03	.0993
18.54	.358	653.54	1.406E-03	.0874	1.768E-03	.1099	2.029E-03	.1261	1.713E-03	.1065
18.95	.366	655.13	1.431E-03	.0890	1.801E-03	.1120	2.068E-03	.1286	1.745E-03	.1085
19.35	.374	656.58	1.455E-03	.0905	1.832E-03	.1139	2.105E-03	.1308	1.775E-03	.1103
19.76	.382	656.18	1.448E-03	.0900	1.823E-03	.1134	2.095E-03	.1302	1.767E-03	.1098
20.16	.390	655.45	1.437E-03	.0893	1.808E-03	.1124	2.076E-03	.1291	1.752E-03	.1089
20.56	.397	634.09	1.164E-03	.0724	1.455E-03	.0904	1.663E-03	.1033	1.411E-03	.0877
20.96	.405	656.56	1.455E-03	.0904	1.832E-03	.1139	2.104E-03	.1308	1.775E-03	.1103
21.35	.413	658.78	1.491E-03	.0927	1.879E-03	.1168	2.160E-03	.1343	1.820E-03	.1132
21.75	.420	660.75	1.524E-03	.0948	1.923E-03	.1195	2.212E-03	.1375	1.862E-03	.1158
22.14	.428	661.54	1.538E-03	.0956	1.941E-03	.1206	2.233E-03	.1388	1.880E-03	.1169
22.52	.435	661.23	1.533E-03	.0953	1.934E-03	.1202	2.225E-03	.1383	1.873E-03	.1164
22.91	.443	656.26	1.450E-03	.0901	1.825E-03	.1135	2.097E-03	.1303	1.769E-03	.1099
23.29	.450	648.60	1.327E-03	.0825	1.665E-03	.1035	1.909E-03	.1186	1.614E-03	.1003
23.67	.458	656.88	1.460E-03	.0908	1.838E-03	.1143	2.112E-03	.1313	1.781E-03	.1107

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL 8

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
18	7	TILE INSERT	0.111	.010	.015	4.758E 05	1.246E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	207.9	1277	29.80	29.99	30.00	.20	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0224	.987	3769	1.599E-05	7.557E-08	9.969E 05	1.609E-02	86

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.323	2.930	37.678	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.05	.465	657.04	1.463E-03	.0909	1.842E-03	.1145	2.116E-03	.1316	1.785E-03	.1109
24.42	.472	654.15	1.416E-03	.0880	1.781E-03	.1107	2.044E-03	.1271	1.725E-03	.1073
24.80	.479	654.86	1.426E-03	.0887	1.794E-03	.1115	2.060E-03	.1281	1.739E-03	.1081
25.17	.486	651.93	1.380E-03	.0858	1.734E-03	.1078	1.989E-03	.1237	1.681E-03	.1045
25.53	.494	642.91	1.238E-03	.0770	1.550E-03	.0964	1.774E-03	.1103	1.503E-03	.0934
25.90	.501	622.17	9.307E-04	.0579	1.156E-03	.0719	1.315E-03	.0818	1.122E-03	.0698

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL 8

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
18	7	TILE INSERT	0.111	.010	.015	4.758E 05	1.246E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	207.9	1277	29.80	29.99	30.00	.20	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0224	.987	3769	1.999E-05	7.557E-08	9.969E 05	1.609E-02	86

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.323	2.930	37.678	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.285	541.59	541.21	539.83	539.44	539.15	538.91	0	0	530.96	531.27
2.282	544.15	543.56	541.56	540.71	540.00	539.41	0	0	531.14	531.40
3.278	546.00	545.32	542.98	541.80	540.68	539.92	0	0	531.22	531.49
4.275	547.55	546.76	544.21	542.80	541.33	540.33	0	0	531.31	531.63
5.271	548.93	548.05	545.32	543.71	541.98	540.80	0	0	531.54	531.76
6.268	550.15	549.22	546.35	544.59	542.56	541.21	0	0	531.63	531.85
7.265	551.29	550.27	547.32	545.44	543.18	541.62	0	0	531.76	532.08
8.261	552.34	551.32	548.22	546.20	543.77	542.06	0	0	531.90	532.12
9.258	553.36	552.25	549.10	546.99	544.36	542.48	0	0	531.99	532.30
10.254	554.29	553.16	549.95	547.73	544.94	542.92	0	0	532.17	532.43
11.251	555.20	554.03	550.74	548.43	545.50	543.36	0	0	532.30	532.52
12.247	556.04	554.88	551.53	549.16	546.09	543.80	0	0	532.39	532.75
13.244	556.85	555.66	552.28	549.86	546.64	544.24	0	0	532.52	532.88
14.241	557.67	556.42	553.01	550.50	547.23	544.71	0	0	532.66	532.97
15.237	558.42	557.17	553.71	551.18	547.78	545.15	0	0	532.84	533.19
16.234	559.18	557.90	554.41	551.85	548.34	545.62	0	0	532.84	533.15
17.230	559.87	558.62	555.08	552.46	548.90	546.12	0	0	532.97	533.37
18.227	560.57	559.29	555.75	553.07	549.45	546.58	0	0	533.10	533.55
19.223	561.26	559.99	556.39	553.71	550.01	547.05	0	0	533.24	533.60
20.220	561.93	560.63	557.03	554.32	550.56	547.55	0	0	533.42	533.78
21.217	562.56	561.26	557.67	554.93	551.12	548.02	0	0	533.51	533.87

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
18	7	TILE INSERT	0.111	.010	.015	4.758E 05	1.246E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	207.9	1277	29.80	29.99	30.00	.20	30.00	0

T-INF (DEG R)	P-INF (PSIA)	Q-INF (PSIA)	V-INF (FT/SEC)	RHO-INF (SLUG/FT3)	MU-INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0224	.987	3769	1.999E-05	7.557E-08	9.969E 05	1.609E-02	86

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.323	2.930	37.678	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.213	563.23	561.90	558.28	555.52	551.64	548.52	0	0	533.60	534.00
23.210	563.87	562.54	558.89	556.10	552.20	548.98	0	0	533.73	534.18
24.206	564.47	563.14	559.49	556.68	552.75	549.48	0	0	533.91	534.22
25.203	565.08	563.75	560.10	557.26	553.27	549.98	0	0	534.04	534.36
26.199	565.68	564.36	560.68	557.84	553.83	550.47	0	0	534.13	534.45
27.196	566.26	564.93	561.26	558.39	554.35	550.97	0	0	534.22	534.67
28.193	566.87	565.51	561.84	558.94	554.91	551.47	0	0	534.40	534.76
29.189	567.47	566.09	562.42	559.52	555.46	552.02	0	0	534.49	534.85
30.186	568.02	566.66	562.97	560.07	555.98	552.49	0	0	534.71	535.03
31.182	568.62	567.24	563.52	560.60	556.51	553.01	0	0	534.76	535.07
32.179	569.17	567.82	564.10	561.18	557.03	553.51	0	0	534.94	535.30
33.175	569.72	568.36	564.64	561.73	557.58	554.00	0	0	535.03	535.38
34.172	570.29	568.91	565.19	562.28	558.10	554.56	0	0	535.16	535.47
35.169	570.84	569.49	565.74	562.80	558.62	555.05	0	0	535.30	535.65
36.165	571.38	570.03	566.29	563.32	559.15	555.55	0	0	535.47	535.74
37.162	571.93	570.55	566.84	563.87	559.67	556.04	0	0	535.52	535.88
38.158	572.47	570.87	567.41	564.39	560.07	556.53	0	0	535.65	536.01
39.155	573.02	571.64	567.93	564.93	560.74	557.06	0	0	535.79	536.19
40.151	573.56	572.19	568.45	565.48	561.23	557.58	0	0	535.92	536.28
41.148	574.08	572.70	569.00	566.00	561.78	558.07	0	0	536.05	536.41
42.145	574.62	573.22	569.52	566.52	562.30	558.60	0	0	536.14	536.50
43.141	575.14	573.76	570.06	567.07	562.80	559.09	0	0	536.32	536.59

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
18	7	TILE INSERT	0.111	.010	.015	4.758E 05	1.246E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	207.9	1277	29.80	29.99	30.00	.20	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0224	.987	3769	1.999E-05	7.557E-08	9.969E 05	1.609E-02	86

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.323	2.930	37.678	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
18	7	TILE INSERT	0.111	.010	.015	4.758E 05	1.246E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	207.9	1277	29.80	29.99	30.00	.20	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0224	.987	3769	1.999E-05	7.557E-08	9.969E 05	1.609E-02	86

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.323	2.930	37.678	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
8.417	1
16.773	2
25.125	3
36.348	4

NASA/RI OH69
V418-E3A

AEDC (ARO, INC.) ARNOLD AFS, TENNESSEE 11/18/75 PAGE 1
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CO.. (..	*** MODEL DESCRIPTION *	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
19	7	TILE INSERT	0.111	.010	.015	4.757E 05	1.246E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREHEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.4	1284	39.73	40.01	30.00	-9.73	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0225	.994	3779	2.003E-05	7.594E-08	9.966E 05	1.616E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
6.877	2.853	5.276	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.20	.139	560.46	4.643E-04	.0287	5.645E-04	.0349	6.328E-04	.0392	5.259E-04	.0325
7.77	.150	604.01	1.859E-03	.1150	2.292E-03	.1418	2.594E-03	.1605	2.123E-03	.1314
8.33	.161	613.04	2.181E-03	.1350	2.697E-03	.1669	3.059E-03	.1893	2.496E-03	.1545
8.89	.172	620.03	2.439E-03	.1509	3.023E-03	.1871	3.435E-03	.2126	2.795E-03	.1730
9.45	.183	622.71	2.539E-03	.1571	3.151E-03	.1950	3.583E-03	.2217	2.912E-03	.1802
10.00	.193	621.94	2.510E-03	.1554	3.114E-03	.1927	3.540E-03	.2191	2.878E-03	.1781
10.54	.204	623.09	2.554E-03	.1580	3.170E-03	.1962	3.604E-03	.2231	2.929E-03	.1813
11.08	.214	630.80	2.850E-03	.1764	3.547E-03	.2195	4.042E-03	.2501	3.274E-03	.2026
11.62	.225	635.90	3.050E-03	.1888	3.804E-03	.2354	4.340E-03	.2686	3.508E-03	.2171
12.15	.235	640.64	3.240E-03	.2005	4.048E-03	.2505	4.625E-03	.2862	3.731E-03	.2309
12.68	.245	643.58	3.360E-03	.2079	4.203E-03	.2601	4.806E-03	.2974	3.872E-03	.2396
13.20	.255	640.61	3.239E-03	.2005	4.047E-03	.2505	4.624E-03	.2862	3.730E-03	.2309
13.72	.265	652.85	3.747E-03	.2319	4.705E-03	.2912	5.394E-03	.3338	4.328E-03	.2679
14.23	.275	659.06	4.015E-03	.2485	5.054E-03	.3128	5.805E-03	.3593	4.645E-03	.2875
14.74	.285	662.40	4.167E-03	.2579	5.252E-03	.3250	6.038E-03	.3737	4.824E-03	.2985
15.24	.295	666.19	4.342E-03	.2687	5.482E-03	.3393	6.310E-03	.3905	5.032E-03	.3114
15.74	.304	655.86	3.877E-03	.2399	4.874E-03	.3016	5.592E-03	.3461	4.481E-03	.2773
16.23	.314	665.78	4.324E-03	.2676	5.457E-03	.3377	6.281E-03	.3887	5.010E-03	.3100
16.72	.323	669.15	4.481E-03	.2773	5.664E-03	.3505	6.526E-03	.4039	5.197E-03	.3216
17.20	.333	671.44	4.589E-03	.2840	5.807E-03	.3594	6.695E-03	.4143	5.326E-03	.3296
17.68	.342	671.28	4.582E-03	.2836	5.797E-03	.3588	6.683E-03	.4136	5.317E-03	.3290

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
19	7	TILE INSERT	0.111	.010	.015	4.757E 05	1.246E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.4	1284	39.73	40.01	30.00	-9.73	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0225	.994	3779	2.003E-05	7.594E-08	9.966E 05	1.616E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
6.877	2.853	5.276	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
18.15	.351	667.16	4.389E-03	.2716	5.543E-03	.3431	6.382E-03	.3950	5.087E-03	.3148
18.62	.360	666.86	4.469E-03	.2766	5.648E-03	.3495	6.507E-03	.4027	5.182E-03	.3207
19.09	.369	673.87	4.706E-03	.2912	5.961E-03	.3689	6.877E-03	.4256	5.464E-03	.3382
19.55	.378	674.91	4.756E-03	.2943	6.026E-03	.3730	6.956E-03	.4305	5.523E-03	.3418
20.00	.387	674.28	4.726E-03	.2925	5.987E-03	.3705	6.909E-03	.4276	5.488E-03	.3396
20.45	.395	672.62	4.647E-03	.2876	5.883E-03	.3641	6.785E-03	.4199	5.394E-03	.3338
20.90	.404	657.65	3.957E-03	.2449	4.978E-03	.3080	5.715E-03	.3537	4.575E-03	.2832
21.34	.413	675.26	4.774E-03	.2954	6.050E-03	.3744	6.984E-03	.4322	5.545E-03	.3432
21.78	.421	678.59	4.934E-03	.3054	6.263E-03	.3876	7.237E-03	.4479	5.736E-03	.3550
22.21	.429	678.39	4.925E-03	.3048	6.251E-03	.3868	7.223E-03	.4470	5.726E-03	.3543
22.63	.438	679.02	4.956E-03	.3067	6.291E-03	.3894	7.271E-03	.4500	5.762E-03	.3566
23.06	.446	677.28	4.872E-03	.3015	6.180E-03	.3825	7.139E-03	.4418	5.662E-03	.3504
23.47	.454	667.26	4.397E-03	.2721	5.553E-03	.3437	6.394E-03	.3957	5.096E-03	.3154
23.88	.462	673.96	4.713E-03	.2917	5.970E-03	.3695	6.889E-03	.4263	5.473E-03	.3387
24.29	.470	677.52	4.884E-03	.3023	6.197E-03	.3835	7.158E-03	.4430	5.677E-03	.3513
24.69	.477	675.76	4.800E-03	.2970	6.084E-03	.3765	7.025E-03	.4347	5.576E-03	.3451
25.09	.485	672.48	4.644E-03	.2874	5.878E-03	.3638	6.779E-03	.4195	5.390E-03	.3336
25.49	.493	670.58	4.554E-03	.2818	5.760E-03	.3565	6.639E-03	.4109	5.283E-03	.3270
25.87	.500	661.13	4.115E-03	.2547	5.184E-03	.3208	5.957E-03	.3687	4.762E-03	.2947

L = 4.311 FT

GROUP	CON.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
19	7	TILE INSERT	0.111	.010	.015	4.757E 05	1.246E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.4	1284	39.73	40.01	30.00	-9.73	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0225	.994	3779	2.003E-05	7.594E-08	9.966E 05	1.616E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
6.877	2.853	5.276	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.251	540.95	540.95	539.83	539.53	539.41	539.21	0	0	527.59	528.67
2.419	543.86	543.71	541.98	541.21	540.50	539.97	0	0	528.49	529.79
3.416	545.59	545.38	543.42	542.39	541.30	540.53	0	0	529.39	530.78
4.412	547.08	546.79	544.65	543.42	542.06	541.09	0	0	530.33	531.85
5.409	548.40	548.02	545.76	544.38	542.77	541.62	0	0	531.22	532.75
6.405	549.60	549.19	546.79	545.29	543.50	542.12	0	0	532.12	533.69
7.402	550.68	550.24	547.76	546.12	544.09	542.62	0	0	533.02	534.67
8.399	551.73	551.23	548.69	546.94	544.71	543.09	0	0	533.91	535.70
9.395	552.72	552.17	549.57	547.73	545.38	543.62	0	0	534.80	536.46
10.392	553.65	553.07	550.42	548.52	545.97	544.09	0	0	535.74	537.48
11.388	554.56	553.94	551.20	549.25	546.58	544.62	0	0	536.55	538.38
12.385	555.40	554.79	551.99	550.01	547.20	545.09	0	0	537.48	539.31
13.381	556.24	555.57	552.75	550.71	547.81	545.59	0	0	538.29	540.20
14.378	557.03	556.39	553.51	551.41	548.43	546.09	0	0	539.27	541.05

NASA/RI OH69
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
19	7	TILE INSERT	0.111	.010	.015	4.757E 05	1.246E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.4	1284	39.73	40.01	30.00	-9.73	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0225	.994	3779	2.003E-05	7.594E-08	9.966E 05	1.616E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
6.877	2.853	5.276	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
8.289	1

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
20	7	TILE INSERT	0.111	.010	.015	6.009E 05	1.574E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.9	1279	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0282	1.245	3772	2.519E-05	7.548E-08	1.259E 06	1.808E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
8.648	2.871	7.036	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.61	.089	578.66	1.110E-03	.0614	1.358E-03	.0751	1.529E-03	.0846	1.321E-03	.0731
5.10	.099	653.61	3.558E-03	.1969	4.474E-03	.2475	5.134E-03	.2840	4.335E-03	.2398
5.58	.108	572.34	9.354E-04	.0517	1.142E-03	.0632	1.284E-03	.0710	1.112E-03	.0615
6.06	.117	556.03	5.075E-04	.0281	6.166E-04	.0341	6.908E-04	.0382	6.005E-04	.0332
6.54	.126	552.84	4.278E-04	.0237	5.192E-04	.0287	5.814E-04	.0322	5.058E-04	.0280
7.49	.145	562.32	6.688E-04	.0370	8.141E-04	.0450	9.133E-04	.0505	7.927E-04	.0439
7.96	.154	599.51	1.721E-03	.0952	2.120E-03	.1173	2.398E-03	.1327	2.061E-03	.1140
8.43	.163	598.20	1.681E-03	.0930	2.070E-03	.1145	2.341E-03	.1295	2.012E-03	.1113
8.90	.172	604.51	1.875E-03	.1037	2.314E-03	.1280	2.621E-03	.1450	2.249E-03	.1244
9.36	.181	604.60	1.878E-03	.1039	2.318E-03	.1282	2.625E-03	.1452	2.252E-03	.1246
9.82	.190	604.89	1.887E-03	.1044	2.329E-03	.1288	2.638E-03	.1459	2.263E-03	.1252
10.28	.199	606.83	1.948E-03	.1078	2.406E-03	.1331	2.726E-03	.1508	2.338E-03	.1293
10.74	.208	600.41	1.749E-03	.0967	2.155E-03	.1192	2.438E-03	.1349	2.095E-03	.1159
11.19	.216	614.54	2.194E-03	.1214	2.717E-03	.1503	3.085E-03	.1707	2.639E-03	.1460
11.65	.225	620.21	2.380E-03	.1317	2.953E-03	.1634	3.358E-03	.1858	2.868E-03	.1586
12.10	.234	622.08	2.442E-03	.1351	3.032E-03	.1678	3.449E-03	.1908	2.944E-03	.1629
12.54	.242	625.95	2.572E-03	.1423	3.199E-03	.1770	3.642E-03	.2015	3.105E-03	.1718
12.99	.251	625.28	2.550E-03	.1411	3.170E-03	.1754	3.609E-03	.1997	3.077E-03	.1702
13.43	.260	634.15	2.854E-03	.1579	3.561E-03	.1970	4.063E-03	.2248	3.454E-03	.1911
13.87	.268	643.04	3.171E-03	.1754	3.969E-03	.2196	4.541E-03	.2512	3.849E-03	.2129
14.30	.277	647.10	3.319E-03	.1836	4.161E-03	.2302	4.766E-03	.2637	4.034E-03	.2232

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
20	7	TILE INSERT	0.111	.010	.015	6.009E 05	1.574E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.9	1279	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0282	1.245	3772	2.519E-05	7.548E-08	1.259E 06	1.808E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
8.648	2.871	7.036	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
14.74	.285	653.94	3.574E-03	.1977	4.494E-03	.2486	5.158E-03	.2853	4.355E-03	.2409
15.17	.293	657.08	3.694E-03	.2043	4.650E-03	.2573	5.342E-03	.2955	4.505E-03	.2492
15.60	.302	645.38	3.256E-03	.1801	4.080E-03	.2257	4.670E-03	.2584	3.955E-03	.2188
16.03	.310	658.61	3.753E-03	.2076	4.728E-03	.2615	5.434E-03	.3006	4.580E-03	.2534
16.45	.318	665.03	4.013E-03	.2220	5.069E-03	.2804	5.837E-03	.3229	4.908E-03	.2715
16.87	.326	669.35	4.191E-03	.2319	5.305E-03	.2934	6.117E-03	.3384	5.135E-03	.2841
17.29	.334	672.22	4.312E-03	.2385	5.463E-03	.3022	6.306E-03	.3488	5.288E-03	.2925
17.71	.342	672.61	4.328E-03	.2394	5.485E-03	.3035	6.332E-03	.3503	5.309E-03	.2937
18.12	.350	666.40	4.070E-03	.2251	5.144E-03	.2846	5.926E-03	.3278	4.981E-03	.2755
18.54	.358	672.10	4.307E-03	.2383	5.458E-03	.3019	6.299E-03	.3485	5.282E-03	.2922
18.95	.366	676.61	4.498E-03	.2488	5.711E-03	.3159	6.601E-03	.3652	5.526E-03	.3057
19.35	.374	678.60	4.584E-03	.2536	5.825E-03	.3222	6.737E-03	.3727	5.635E-03	.3117
19.76	.382	678.14	4.564E-03	.2525	5.799E-03	.3208	6.706E-03	.3710	5.610E-03	.3104
20.16	.390	676.98	4.515E-03	.2498	5.733E-03	.3172	6.627E-03	.3666	5.547E-03	.3069
20.56	.397	674.51	4.410E-03	.2440	5.594E-03	.3095	6.461E-03	.3574	5.413E-03	.2995
20.96	.405	668.59	4.162E-03	.2302	5.265E-03	.2913	6.070E-03	.3358	5.097E-03	.2820
21.35	.413	682.75	4.764E-03	.2635	6.065E-03	.3355	7.024E-03	.3886	5.866E-03	.3245
21.75	.420	685.57	4.887E-03	.2704	6.230E-03	.3446	7.223E-03	.3996	6.024E-03	.3333
22.14	.428	685.18	4.870E-03	.2694	6.208E-03	.3434	7.196E-03	.3981	6.003E-03	.3321
22.52	.435	685.25	4.873E-03	.2696	6.212E-03	.3436	7.200E-03	.3983	6.007E-03	.3323
22.91	.443	683.83	4.812E-03	.2662	6.129E-03	.3390	7.101E-03	.3928	5.927E-03	.3279
23.29	.450	672.01	4.306E-03	.2382	5.456E-03	.3018	6.296E-03	.3483	5.280E-03	.2921

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
20	7	TILE INSERT	0.111	.010	.015	6.009E 05	1.574E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA=PREBEND	ALPHA=SECTOR	ALPHA=NOM	YAW
7.95	263.9	1279	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0282	1.245	3772	2.519E-05	7.548E-08	1.259E 06	1.808E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
8.648	2.871	7.036	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
23.67	.458	681.15	4.696E-03	.2598	5.974E-03	.3305	6.915E-03	.3826	5.779E-03	.3197
24.05	.465	684.53	4.843E-03	.2679	6.171E-03	.3414	7.151E-03	.3956	5.967E-03	.3301
24.42	.472	683.19	4.784E-03	.2647	6.093E-03	.3370	7.057E-03	.3904	5.892E-03	.3260
24.80	.479	679.01	4.604E-03	.2547	5.852E-03	.3237	6.769E-03	.3745	5.661E-03	.3132
25.17	.486	675.94	4.473E-03	.2475	5.678E-03	.3141	6.561E-03	.3629	5.494E-03	.3039
25.53	.494	673.20	4.357E-03	.2410	5.523E-03	.3056	6.377E-03	.3528	5.346E-03	.2957
25.90	.501	649.22	3.402E-03	.1882	4.269E-03	.2361	4.892E-03	.2706	4.138E-03	.2289

NASA/RI OH69
V41d=E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
20	7	TILE INSERT	0.111	.010	.015	6.009E 05	1.574E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.9	1279	29.76	30.00	30.00	.24	30.00	0

T-INF (DEG R)	P-INF (PSIA)	Q-INF (PSIA)	V-INF (FT/SEC)	RHO-INF (SLUG/FT3)	MU-INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0282	1.245	3772	2.519E-05	7.548E-08	1.259E 06	1.808E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
8.648	2.871	7.036	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.259	539.38	539.03	537.47	537.03	536.64	536.46	0	0	528.98	529.39
2.256	542.27	541.68	539.44	538.47	537.59	537.03	0	0	529.30	529.75
3.252	544.38	543.65	541.03	539.68	538.38	537.56	0	0	529.66	530.19
4.249	546.12	545.26	542.45	540.83	539.12	538.06	0	0	529.93	530.51
5.245	547.67	546.73	543.68	541.86	539.83	538.50	0	0	530.33	530.91
6.242	549.04	548.05	544.82	542.83	540.50	539.00	0	0	530.64	531.36
7.239	550.33	549.28	545.91	543.77	541.18	539.47	0	0	531.05	531.67
8.235	551.53	550.39	546.94	544.68	541.86	539.97	0	0	531.36	532.12
9.232	552.66	551.47	547.93	545.53	542.50	540.45	0	0	531.76	532.43
10.228	553.71	552.49	548.87	546.35	543.15	540.92	0	0	532.08	532.88
11.225	554.73	553.48	549.77	547.17	543.80	541.42	0	0	532.43	533.15
12.221	555.66	554.41	550.65	547.96	544.44	541.92	0	0	532.75	533.51
13.218	556.59	555.31	551.50	548.75	545.09	542.42	0	0	533.15	533.95
14.215	557.49	556.16	552.31	549.51	545.70	542.92	0	0	533.46	534.27

NASA/RI OH69
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
20	7	TILE INSERT	0.111	.010	.015	6.009E 05	1.574E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.9	1279	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0282	1.245	3772	2.519E-05	7.548E-08	1.259E 06	1.808E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
8.648	2.871	7.036	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
6.306	1

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
30 INCH HYPERSONIC TUNNEL F

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
21	7	TILE INSERT	0.111	.010	.015	5.902E 05	1.546E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.5	1293	39.65	40.01	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0281	1.244	3792	2.488E-05	7.631E-08	1.237E 06	1.810E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.428	2.939	14.778	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
6.63	.128	564.94	4.670E-04	.0258	5.679E-04	.0314	6.366E-04	.0352	5.290E-04	.0292
7.20	.139	638.45	1.995E-03	.1102	2.486E-03	.1373	2.835E-03	.1566	2.293E-03	.1267
7.77	.150	695.48	3.551E-03	.1962	4.532E-03	.2504	5.258E-03	.2905	4.142E-03	.2289
8.33	.161	705.46	3.857E-03	.2131	4.945E-03	.2733	5.758E-03	.3182	4.512E-03	.2493
8.89	.172	710.31	4.009E-03	.2215	5.153E-03	.2847	6.010E-03	.3321	4.697E-03	.2595
9.45	.183	709.20	3.974E-03	.2196	5.105E-03	.2821	5.952E-03	.3289	4.654E-03	.2572
10.00	.193	715.02	4.159E-03	.2298	5.358E-03	.2961	6.260E-03	.3459	4.879E-03	.2696
10.54	.204	712.38	4.075E-03	.2252	5.243E-03	.2897	6.120E-03	.3382	4.777E-03	.2639
11.08	.214	733.56	4.769E-03	.2635	6.203E-03	.3428	7.301E-03	.4034	5.627E-03	.3109
11.62	.225	737.03	4.887E-03	.2701	6.369E-03	.3519	7.507E-03	.4148	5.773E-03	.3190
12.15	.235	741.41	5.038E-03	.2784	6.582E-03	.3637	7.772E-03	.4294	5.960E-03	.3293
12.68	.245	740.47	5.006E-03	.2766	6.536E-03	.3612	7.715E-03	.4263	5.920E-03	.3271
13.20	.255	741.05	5.026E-03	.2777	6.564E-03	.3627	7.750E-03	.4283	5.945E-03	.3285
13.72	.265	750.51	5.360E-03	.2962	7.037E-03	.3888	8.343E-03	.4610	6.354E-03	.3514
14.23	.275	752.63	5.436E-03	.3004	7.146E-03	.3949	8.480E-03	.4686	6.454E-03	.3566
14.74	.285	758.01	5.631E-03	.3112	7.426E-03	.4103	8.834E-03	.4882	6.699E-03	.3702
15.24	.295	755.04	5.523E-03	.3052	7.271E-03	.4018	8.638E-03	.4773	6.563E-03	.3627
15.74	.304	745.43	5.180E-03	.2862	6.781E-03	.3747	8.021E-03	.4432	6.135E-03	.3390
16.23	.314	758.46	5.648E-03	.3121	7.451E-03	.4117	8.865E-03	.4899	6.720E-03	.3713
16.72	.323	761.75	5.770E-03	.3188	7.626E-03	.4214	9.088E-03	.5022	6.873E-03	.3798
17.20	.333	763.16	5.822E-03	.3217	7.702E-03	.4256	9.185E-03	.5075	6.939E-03	.3834

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
21	7	TILE INSERT	0.111	.010	.015	5.902E 05	1.546E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.5	1293	39.65	40.01	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0281	1.244	3792	2.488E-05	7.631E-08	1.237E 06	1.810E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.428	2.939	14.778	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.93TO)/HREF
17.68	.342	761.58	5.764E-03	.3185	7.617E-03	.4209	9.077E-03	.5016	6.865E-03	.3794
18.15	.351	747.32	5.247E-03	.2899	6.877E-03	.3800	8.141E-03	.4498	6.219E-03	.3436
18.62	.360	760.97	5.741E-03	.3172	7.585E-03	.4191	9.036E-03	.4993	6.837E-03	.3778
19.09	.369	763.52	5.836E-03	.3225	7.722E-03	.4267	9.210E-03	.5089	6.956E-03	.3844
19.55	.378	762.88	5.813E-03	.3212	7.688E-03	.4248	9.167E-03	.5065	6.927E-03	.3828
20.00	.387	761.28	5.753E-03	.3179	7.602E-03	.4200	9.057E-03	.5005	6.852E-03	.3786
20.45	.395	755.91	5.556E-03	.3070	7.318E-03	.4044	8.697E-03	.4806	6.604E-03	.3649
20.90	.404	753.06	5.345E-03	.2954	7.016E-03	.3877	8.316E-03	.4595	6.341E-03	.3504
21.34	.413	763.43	5.834E-03	.3223	7.718E-03	.4265	9.206E-03	.5087	6.953E-03	.3842
21.78	.421	767.33	5.980E-03	.3305	7.932E-03	.4383	9.478E-03	.5237	7.138E-03	.3944
22.21	.429	766.96	5.966E-03	.3297	7.911E-03	.4372	9.452E-03	.5223	7.121E-03	.3935
22.63	.438	765.07	5.895E-03	.3258	7.808E-03	.4314	9.320E-03	.5150	7.031E-03	.3885
23.06	.446	763.09	5.821E-03	.3216	7.700E-03	.4255	9.182E-03	.5074	6.937E-03	.3833
23.47	.454	748.85	5.303E-03	.2930	6.956E-03	.3843	8.240E-03	.4553	6.288E-03	.3475
23.88	.462	766.02	5.931E-03	.3277	7.860E-03	.4343	9.387E-03	.5187	7.076E-03	.3910
24.29	.470	767.17	5.975E-03	.3302	7.924E-03	.4379	9.468E-03	.5232	7.132E-03	.3941
24.69	.477	762.75	5.809E-03	.3210	7.683E-03	.4245	9.160E-03	.5061	6.922E-03	.3825
25.09	.485	760.50	5.725E-03	.3164	7.562E-03	.4178	9.006E-03	.4977	6.817E-03	.3767
25.49	.493	755.68	5.549E-03	.3066	7.308E-03	.4038	8.684E-03	.4798	6.596E-03	.3644
25.87	.500	727.70	4.576E-03	.2528	5.933E-03	.3278	6.966E-03	.3849	5.389E-03	.2978

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
21	7	TILE INSERT	0.111	.010	.015	5.902E-05	1.546E-03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.5	1293	39.65	40.01	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (F=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0281	1.244	3792	2.488E-05	7.631E-08	1.237E 06	1.810E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.428	2.939	14.778	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.289	541.33	541.24	539.97	539.62	539.47	539.24	0	0	530.51	531.90
2.286	544.15	543.97	542.09	541.24	540.47	539.92	0	0	531.49	533.15
3.282	546.20	545.91	543.77	542.62	541.42	540.62	0	0	532.61	534.40
4.279	547.90	547.55	545.21	543.80	542.27	541.24	0	0	533.78	535.65
5.276	549.42	548.98	546.47	544.91	543.09	541.83	0	0	534.89	536.90
6.272	550.80	550.30	547.64	545.91	543.83	542.39	0	0	536.05	538.11
7.269	552.05	551.50	548.75	546.91	544.59	542.95	0	0	537.17	539.40
8.265	553.25	552.63	549.80	547.81	545.32	543.53	0	0	538.29	540.51
9.262	554.35	553.71	550.80	548.72	546.03	544.06	0	0	539.40	541.76
10.258	555.43	554.76	551.76	549.60	546.73	544.65	0	0	540.56	542.83
11.255	556.45	555.72	552.69	550.42	547.43	545.21	0	0	541.67	543.94
12.252	557.43	556.68	553.60	551.26	548.11	545.73	0	0	542.74	545.18
13.248	558.36	557.61	554.44	552.05	548.81	546.32	0	0	543.85	546.34
14.245	559.26	558.51	555.31	552.87	549.48	546.88	0	0	544.96	547.36
15.241	560.16	559.35	556.13	553.62	550.15	547.49	0	0	545.98	548.51
16.238	561.00	560.15	556.94	554.38	550.85	548.05	0	0	547.09	549.56
17.234	561.84	561.00	557.73	555.14	551.53	548.63	0	0	548.20	550.64
18.231	562.65	561.81	558.48	555.87	552.17	549.19	0	0	549.31	551.75
19.228	563.43	562.59	559.26	556.62	552.87	549.80	0	0	550.37	552.9[illegible]
20.224	564.21	563.35	560.02	557.32	553.51	550.39	0	0	551.44	553.[illegible]

A 311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	X	REX	REK
21	7	TILE INSERT	0.111	.010	.015	5.902E 05	1.546E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.5	1293	39.65	40.01	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0281	1.244	3792	2.488E-05	7.631E-08	1.237E 06	1.810E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.428	2.939	14.778	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.424	1
14.898	2

C-

NASA/RI OH60
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL 2

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
22	7	TILE INSERT	0.111	.010	.015	8.336E 05	2.183E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	380.5	1306	29.66	30.00	30.00	.34	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.3	.0399	1.776	3813	3.515E-05	7.674E-08	1.747E 06	2.166E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
29.268	2.871	27.656	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.61	.089	626.49	1.257E-03	.0580	1.556E-03	.0718	1.766E-03	.0815	1.511E-03	.0698
5.10	.099	648.84	1.640E-03	.0757	2.046E-03	.0944	2.336E-03	.1078	1.985E-03	.0916
5.58	.108	579.71	5.546E-04	.0256	6.762E-04	.0312	7.595E-04	.0351	6.583E-04	.0304
6.06	.117	571.70	4.469E-04	.0206	5.436E-04	.0251	6.095E-04	.0281	5.294E-04	.0244
7.49	.145	665.34	1.949E-03	.0900	2.448E-03	.1130	2.807E-03	.1296	2.272E-03	.1095
7.96	.154	725.16	3.243E-03	.1497	4.184E-03	.1931	4.893E-03	.2259	4.038E-03	.1864
8.43	.163	739.84	3.597E-03	.1660	4.675E-03	.2158	5.499E-03	.2538	4.507E-03	.2080
8.90	.172	753.07	3.929E-03	.1814	5.144E-03	.2374	6.084E-03	.2808	4.954E-03	.2287
9.36	.181	752.84	3.923E-03	.1811	5.135E-03	.2370	6.074E-03	.2804	4.945E-03	.2283
9.82	.190	757.15	4.035E-03	.1862	5.294E-03	.2444	6.274E-03	.2896	5.097E-03	.2353
10.28	.199	762.99	4.188E-03	.1933	5.514E-03	.2545	6.551E-03	.3024	5.305E-03	.2449
10.74	.208	757.61	4.047E-03	.1868	5.311E-03	.2452	6.295E-03	.2906	5.113E-03	.2360
11.19	.216	784.09	4.771E-03	.2202	6.362E-03	.2937	7.636E-03	.3525	6.109E-03	.2820
11.65	.225	789.06	4.915E-03	.2269	6.576E-03	.3035	7.913E-03	.3652	6.311E-03	.2913
12.10	.234	789.52	4.928E-03	.2275	6.590E-03	.3045	7.939E-03	.3666	6.330E-03	.2922
12.54	.242	790.70	4.963E-03	.2291	6.647E-03	.3068	8.006E-03	.3695	6.378E-03	.2944
12.99	.251	775.94	4.541E-03	.2096	6.025E-03	.2781	7.202E-03	.3324	5.790E-03	.2672
13.43	.260	794.50	5.076E-03	.2343	6.816E-03	.3146	8.226E-03	.3797	6.538E-03	.3018
13.87	.268	801.75	5.297E-03	.2445	7.148E-03	.3299	8.661E-03	.3998	6.850E-03	.3162
14.30	.277	804.59	5.386E-03	.2486	7.282E-03	.3361	8.837E-03	.4079	6.976E-03	.3220
14.74	.285	808.65	5.514E-03	.2545	7.477E-03	.3451	9.095E-03	.4198	7.160E-03	.3305

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
22	7	TILE INSERT	0.111	.010	.015	8.336E 05	2.183E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	380.5	1306	29.66	30.00	30.00	.34	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.3	.0399	1.776	3813	3.515E-05	7.674E-08	1.747E 06	2.166E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
29.268	2.871	27.656	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.17	.293	809.54	5.542E-03	.2558	7.520E-03	.3471	9.153E-03	.4225	7.201E-03	.3324
15.60	.302	781.95	4.710E-03	.2174	6.273E-03	.2896	7.521E-03	.3472	6.025E-03	.2781
16.03	.310	808.81	5.519E-03	.2548	7.485E-03	.3455	9.106E-03	.4203	7.168E-03	.3308
16.45	.318	811.34	5.599E-03	.2585	7.607E-03	.3511	9.269E-03	.4278	7.283E-03	.3362
16.87	.326	814.88	5.712E-03	.2636	7.780E-03	.3591	9.500E-03	.4385	7.445E-03	.3436
17.29	.334	814.92	5.713E-03	.2637	7.782E-03	.3592	9.502E-03	.4386	7.447E-03	.3437
17.71	.342	816.43	5.761E-03	.2659	7.856E-03	.3626	9.603E-03	.4432	7.517E-03	.3470
18.12	.350	795.20	5.098E-03	.2353	6.849E-03	.3161	8.268E-03	.3816	6.568E-03	.3032
18.54	.358	812.09	5.623E-03	.2596	7.644E-03	.3528	9.318E-03	.4301	7.317E-03	.3378
18.95	.366	814.92	5.713E-03	.2637	7.782E-03	.3592	9.503E-03	.4386	7.447E-03	.3437
19.35	.374	816.55	5.765E-03	.2661	7.862E-03	.3629	9.611E-03	.4436	7.522E-03	.3472
19.76	.382	815.66	5.737E-03	.2648	7.819E-03	.3609	9.552E-03	.4409	7.481E-03	.3453
20.16	.390	812.21	5.627E-03	.2598	7.650E-03	.3531	9.326E-03	.4305	7.323E-03	.3380
20.56	.397	800.18	5.250E-03	.2423	7.076E-03	.3266	8.566E-03	.3954	6.783E-03	.3131
20.96	.405	806.16	5.436E-03	.2509	7.358E-03	.3396	8.938E-03	.4126	7.048E-03	.3253
21.35	.413	817.86	5.807E-03	.2681	7.928E-03	.3659	9.698E-03	.4477	7.584E-03	.3501
21.75	.420	820.82	5.903E-03	.2725	8.076E-03	.3728	9.898E-03	.4569	7.723E-03	.3565
22.14	.428	821.57	5.927E-03	.2736	8.114E-03	.3745	9.949E-03	.4593	7.758E-03	.3581
22.52	.435	818.77	5.837E-03	.2694	7.974E-03	.3681	9.760E-03	.4505	7.627E-03	.3520
22.91	.443	819.19	5.850E-03	.2701	7.995E-03	.3690	9.788E-03	.4518	7.646E-03	.3530
23.29	.450	792.99	5.032E-03	.2323	6.751E-03	.3116	8.140E-03	.3757	6.476E-03	.2989
23.67	.458	817.47	5.795E-03	.2675	7.909E-03	.3651	9.673E-03	.4465	7.566E-03	.3493

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
22	7	TILE INSERT	0.111	.010	.015	8.336E 05	2.183E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	380.5	1306	29.66	30.00	30.00	.34	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.3	.0399	1.776	3813	3.515E-05	7.674E-08	1.747E 06	2.166E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
29.268	2.871	27.656	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.05	.465	821.49	5.925E-03	.2735	8.111E-03	.3744	9.945E-03	.4590	7.755E-03	.3580
24.42	.472	817.17	5.786E-03	.2671	7.894E-03	.3644	9.653E-03	.4456	7.552E-03	.3486
24.80	.479	814.10	5.688E-03	.2626	7.743E-03	.3574	9.451E-03	.4362	7.411E-03	.3421
25.17	.486	811.02	5.591E-03	.2581	7.594E-03	.3505	9.251E-03	.4270	7.270E-03	.3356
25.53	.494	804.51	5.385E-03	.2486	7.280E-03	.3360	8.835E-03	.4078	6.975E-03	.3220
25.90	.501	762.49	4.177E-03	.1928	5.498E-03	.2538	6.530E-03	.3014	5.290E-03	.2442

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
22	7	TILE INSERT	0.111	.010	.015	8.336E 05	2.183E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	380.5	1306	29.66	30.00	30.00	.34	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.3	.0399	1.776	3813	3.515E-05	7.674E-08	1.747E 06	2.166E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
29.268	2.871	27.656	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.259	540.15	539.59	537.73	537.14	536.70	536.40	0	0	529.66	530.19
2.256	543.68	542.86	540.15	538.91	537.76	537.08	0	0	530.15	530.91
3.252	546.29	545.29	542.15	540.42	538.74	537.70	0	0	530.82	531.63
4.249	548.46	547.35	543.89	541.86	539.65	538.35	0	0	531.45	532.39
5.245	550.39	549.13	545.41	543.12	540.53	538.97	0	0	531.99	533.02
6.242	552.11	550.77	546.88	544.33	541.39	539.53	0	0	532.66	533.73
7.239	553.71	552.28	548.19	545.50	542.21	540.15	0	0	533.24	534.45
8.235	555.17	553.68	549.48	546.58	543.06	540.71	0	0	533.87	535.12
9.232	556.56	555.02	550.71	547.70	543.89	541.33	0	0	534.49	535.74
10.228	557.87	556.27	551.88	548.72	544.68	541.95	0	0	535.16	536.37
11.225	559.15	557.49	553.01	549.71	545.47	542.56	0	0	535.74	537.08
12.221	560.34	558.65	554.09	550.74	546.29	543.18	0	0	536.37	537.75
13.218	561.46	559.76	555.14	551.70	547.08	543.80	0	0	537.04	538.42
14.215	562.56	560.83	556.16	552.63	547.87	544.44	0	0	537.62	539.00
15.211	563.53	561.90	557.17	553.57	548.66	545.09	0	0	538.24	539.58
16.208	564.67	562.91	558.13	554.47	549.45	545.73	0	0	538.82	540.25
17.204	565.68	563.89	559.09	555.34	550.24	546.38	0	0	539.45	540.87
18.201	566.66	564.85	559.99	556.21	551.03	547.05	0	0	540.16	541.58
19.197	567.62	565.77	560.91	557.09	551.79	547.73	0	0	540.69	542.07
20.194	568.54	566.69	561.81	557.96	552.58	548.40	0	0	541.36	542.74
21.191	569.46	567.62	562.68	558.80	553.33	549.10	0	0	541.89	543.36

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
22	7	TILE INSERT	0.111	.010	.015	8.336E-05	2.183E-03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	380.5	1306	29.66	30.00	30.00	.34	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.3	.0399	1.776	3813	3.515E-05	7.674E-08	1.747E 06	2.166E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
29.268	2.871	27.656	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.187	570.35	568.48	563.55	559.61	554.12	549.77	0	0	542.56	544.03
23.184	571.24	569.37	564.41	560.45	554.88	550.47	0	0	543.18	544.61
24.180	572.10	570.23	565.22	561.26	555.60	551.15	0	0	543.81	545.23
25.177	572.96	571.07	566.09	562.07	556.39	551.88	0	0	544.38	545.85
26.173	573.79	571.90	566.90	562.85	557.14	552.58	0	0	545.01	546.47
27.170	574.65	572.62	567.76	563.63	557.87	553.25	0	0	545.58	547.09
28.167	575.45	573.54	568.54	564.41	558.65	553.94	0	0	546.25	547.67
29.163	576.26	574.34	569.31	565.19	559.38	554.67	0	0	546.83	548.29
30.160	577.06	575.14	570.12	566.00	560.16	555.37	0	0	547.49	548.82
31.156	577.86	575.94	570.89	566.78	560.89	556.10	0	0	548.02	549.49
32.153	578.63	576.71	571.67	567.53	561.64	556.80	0	0	548.60	550.11

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
22	7	TILE INSERT	0.111	.010	.015	8.336E 05	2.183E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	380.5	1306	29.66	30.00	30.00	.34	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.3	.0399	1.776	3813	3.515E-05	7.674E-08	1.747E 06	2.166E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
29.268	2.871	27.656	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.842	1
15.179	2
23.961	3
28.386	4

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

_ = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
23	7	TILE INSERT	0.111	.010	.015	8.241E 05	2.158E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.0	1301	39.50	40.01	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0393	1.745	3805	3.469E-05	7.644E-08	1.727E 06	2.146E-02	73

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
22.098	2.967	20.432	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
6.05	.117	574.29	5.919E-04	.0276	7.191E-04	.0335	8.058E-04	.0375	6.700E-04	.0312
6.63	.128	580.81	6.957E-04	.0324	8.466E-04	.0394	9.496E-04	.0442	7.884E-04	.0367
7.20	.139	674.54	2.535E-03	.1181	3.168E-03	.1476	3.621E-03	.1687	2.920E-03	.1360
7.77	.150	765.65	5.039E-03	.2348	6.532E-03	.3043	7.676E-03	.3576	5.932E-03	.2764
8.33	.161	774.14	5.312E-03	.2475	6.915E-03	.3222	8.153E-03	.3799	6.269E-03	.2921
8.89	.172	788.39	5.789E-03	.2697	7.591E-03	.3537	9.005E-03	.4196	6.861E-03	.3197
9.45	.183	790.31	5.855E-03	.2728	7.687E-03	.3581	9.126E-03	.4252	6.944E-03	.3235
10.00	.193	798.87	6.158E-03	.2869	8.123E-03	.3784	9.682E-03	.4511	7.324E-03	.3412
10.54	.204	793.23	5.957E-03	.2776	7.833E-03	.3650	9.312E-03	.4339	7.072E-03	.3295
11.08	.214	811.36	6.619E-03	.3084	8.795E-03	.4098	1.055E-02	.4914	7.907E-03	.3684
11.62	.225	814.16	6.724E-03	.3133	8.950E-03	.4170	1.075E-02	.5008	8.040E-03	.3746
12.15	.235	818.07	6.872E-03	.3202	9.168E-03	.4272	1.103E-02	.5140	8.228E-03	.3833
12.68	.245	813.33	6.694E-03	.3119	8.905E-03	.4149	1.069E-02	.4980	8.001E-03	.3728
13.20	.255	813.84	6.713E-03	.3128	8.933E-03	.4162	1.073E-02	.4997	8.025E-03	.3739
13.72	.265	822.37	7.036E-03	.3278	9.413E-03	.4386	1.135E-02	.5290	8.438E-03	.3931
14.23	.275	826.35	7.189E-03	.3350	9.644E-03	.4493	1.166E-02	.5431	8.635E-03	.4023
14.74	.285	829.64	7.317E-03	.3409	9.836E-03	.4583	1.191E-02	.5550	8.800E-03	.4100
15.24	.295	825.04	7.139E-03	.3326	9.567E-03	.4457	1.156E-02	.5384	8.570E-03	.3993
15.74	.304	812.55	6.665E-03	.3105	8.862E-03	.4129	1.063E-02	.4954	7.964E-03	.3710
16.23	.314	828.81	7.286E-03	.3394	9.788E-03	.4560	1.185E-02	.5521	8.759E-03	.4081
16.72	.323	831.06	7.374E-03	.3435	9.921E-03	.4623	1.203E-02	.5603	8.872E-03	.4134

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
23	7	TILE INSERT	0.111	.010	.015	8.241E 05	2.158E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA=MODEL UNCORRECTED	ALPHA=MODEL CORRECTED	ALPHA=PREBEND	ALPHA=SECTOR	ALPHA=NOM	YAW
7.97	374.0	1301	39.50	40.01	30.00	-9.50	40.00	0

T = INF (DEG R)	P = INF (PSIA)	Q = INF (PSIA)	V = INF (FT/SEC)	RHO = INF (SLUG/FT3)	MU = INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0393	1.745	3805	3.469E-05	7.644E-08	1.727E 06	2.146E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
22.098	2.967	20.432	1000

X (IN)	X/L	TW (DEG R)	HI(T)	HI(T)/HREF	HI(0.9T)	HI(0.9T)/HREF	HI(0.85T)	HI(0.85T)/HREF	HI (.934T)	HI (.934T)/HREF
17.20	.333	834.16	7.496E-03	.3492	1.011E-02	.4709	1.227E-02	.5718	9.030E-03	.4207
17.68	.342	833.95	7.488E-03	.3489	1.009E-02	.4703	1.226E-02	.5710	9.020E-03	.4202
19.15	.351	813.96	6.718E-03	.3130	8.941E-03	.4166	1.074E-02	.5002	8.032E-03	.3742
19.62	.360	831.38	7.387E-03	.3442	9.941E-03	.4632	1.205E-02	.5615	8.889E-03	.4141
19.09	.369	834.47	7.509E-03	.3498	1.013E-02	.4718	1.230E-02	.5730	9.047E-03	.4215
19.55	.378	833.50	7.470E-03	.3480	1.007E-02	.4691	1.222E-02	.5694	8.997E-03	.4192
20.00	.387	830.18	7.337E-03	.3418	9.866E-03	.4596	1.195E-02	.5568	8.825E-03	.4111
20.45	.395	825.95	7.175E-03	.3343	9.622E-03	.4483	1.163E-02	.5418	8.617E-03	.4015
20.90	.404	819.64	6.895E-03	.3213	9.203E-03	.4288	1.108E-02	.5161	8.258E-03	.3847
21.34	.413	836.24	7.579E-03	.3531	1.023E-02	.4768	1.244E-02	.5797	9.138E-03	.4258
21.78	.421	838.16	7.656E-03	.3567	1.035E-02	.4823	1.260E-02	.5870	9.238E-03	.4304
22.21	.429	837.37	7.625E-03	.3552	1.030E-02	.4800	1.254E-02	.5840	9.197E-03	.4285
22.63	.438	836.82	7.603E-03	.3542	1.027E-02	.4785	1.249E-02	.5820	9.169E-03	.4272
23.06	.446	830.17	7.340E-03	.3420	9.871E-03	.4599	1.196E-02	.5571	8.829E-03	.4114
23.47	.454	813.25	6.919E-03	.3224	9.238E-03	.4304	1.122E-02	.5183	8.288E-03	.3861
23.88	.462	838.57	7.673E-03	.3575	1.036E-02	.4835	1.263E-02	.5887	9.260E-03	.4314
24.29	.478	835.38	7.546E-03	.3516	1.018E-02	.4744	1.237E-02	.5765	9.095E-03	.4237
24.69	.477	829.75	7.324E-03	.3412	9.846E-03	.4587	1.193E-02	.5556	8.808E-03	.4104
25.09	.485	826.81	7.298E-03	.3395	9.791E-03	.4562	1.185E-02	.5522	8.761E-03	.4082
25.49	.493	824.78	7.131E-03	.3323	9.556E-03	.4452	1.154E-02	.5377	8.560E-03	.3988
25.87	.500	791.26	5.891E-03	.2745	7.738E-03	.3605	9.191E-03	.4282	6.989E-03	.3256

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
23	7	TILE INSERT	0.111	.010	.015	8.241E 05	2.158E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.0	1301	39.50	40.01	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0393	1.745	3805	3.469E-05	7.644E-08	1.727E 06	2.146E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
22.058	2.967	20.432	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.301	540.74	540.68	539.18	538.68	538.38	538.21	0	0	530.10	532.25
2.298	544.06	543.93	541.65	540.59	539.59	539.00	0	0	531.45	534.13
3.294	546.50	546.17	543.62	542.18	540.68	539.77	0	0	533.06	536.01
4.291	548.52	548.11	545.32	543.62	541.71	540.50	0	0	534.58	537.75
5.288	550.30	549.80	546.85	544.91	542.65	541.24	0	0	536.23	539.58
6.284	551.96	551.38	548.28	546.14	543.59	541.92	0	0	537.84	541.27
7.281	553.48	552.84	549.60	547.32	544.47	542.62	0	0	539.45	542.96
8.277	554.88	554.18	550.92	548.43	545.32	543.24	0	0	540.96	544.61
9.274	556.21	555.46	552.02	549.48	546.20	543.91	0	0	542.52	546.12
10.270	557.46	556.71	553.16	550.53	547.02	544.56	0	0	544.07	547.71
11.267	558.68	557.87	554.27	551.53	547.87	545.29	0	0	545.63	549.35
12.264	559.84	559.00	555.34	552.52	548.69	545.91	0	0	547.09	550.95
13.260	560.97	560.10	556.39	553.48	549.51	546.58	0	0	548.69	552.37
14.257	562.07	561.15	557.41	554.41	550.33	547.26	0	0	550.15	553.87
15.253	563.08	562.16	558.36	555.37	551.12	547.96	0	0	551.66	555.50
16.250	564.13	563.17	559.25	556.27	551.93	548.63	0	0	553.16	556.92
17.246	565.11	564.13	560.28	557.17	552.75	549.36	0	0	554.67	558.42
18.243	566.09	565.11	561.20	558.04	553.54	550.04	0	0	556.12	559.96
19.240	567.04	566.03	562.10	558.91	554.35	550.74	0	0	557.54	561.33
20.236	567.96	566.92	563.00	559.76	555.14	551.47	0	0	559.08	562.74
21.233	568.88	567.85	563.89	560.60	555.92	552.17	0	0	560.49	564.28

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
23	7	TILE INSERT	0.111	.010	.015	8.241E 05	2.158E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.0	1301	39.50	40.01	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0393	1.745	3805	3.469E-05	7.644E-08	1.727E 06	2.146E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
22.098	2.987	20.432	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.229	569.77	568.74	564.76	561.46	556.71	552.90	0	0	561.90	565.68
23.226	570.66	569.60	565.60	562.28	557.49	553.62	0	0	563.31	567.05
24.222	571.50	570.46	566.46	563.11	558.25	554.32	0	0	564.80	568.49
25.219	572.39	571.33	567.30	563.92	559.03	555.05	0	0	566.25	569.99
26.216	573.22	572.13	568.13	564.73	559.81	555.78	0	0	567.66	571.39

L = 4.311 ..

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
23	7	TILE INSERT	0.111	.010	.015	8.241E 05	2.158E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.0	1301	39.50	40.01	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0393	1.745	3805	3.469E-05	7.644E-08	1.727E 06	2.146E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
22.098	2.967	20.432	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.989	1
16.433	2
20.629	3

NASA/RI OH69
V418-E9A

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	X	REX	REK
25	7	TILE INSERT	0.111	.010	0	9.250E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.4	1308	29.63	30.01	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0442	1.969	3815	3.893E-05	7.665E-08	1.938E 06	2.282E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
13.464	2.830	11.876	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.12	.080	566.61	5.248E-04	.0230	6.373E-04	.0279	7.138E-04	.0313	6.207E-04	.0272
4.61	.089	615.19	1.577E-03	.0691	1.944E-03	.0852	2.200E-03	.0964	1.889E-03	.0828
5.10	.099	655.98	2.626E-03	.1151	3.285E-03	.1440	3.757E-03	.1646	3.186E-03	.1396
5.58	.108	585.23	9.037E-04	.0396	1.103E-03	.0484	1.241E-03	.0544	1.074E-03	.0471
6.06	.117	571.29	6.172E-04	.0270	7.504E-04	.0329	8.413E-04	.0369	7.308E-04	.0320
6.54	.126	563.24	4.596E-04	.0201	5.575E-04	.0244	6.239E-04	.0273	5.431E-04	.0238
7.49	.145	598.63	1.195E-03	.0524	1.465E-03	.0642	1.652E-03	.0724	1.425E-03	.0625
7.96	.154	624.34	1.798E-03	.0788	2.224E-03	.0975	2.522E-03	.1105	2.160E-03	.0947
8.43	.163	629.05	1.890E-03	.0828	2.341E-03	.1026	2.657E-03	.1164	2.273E-03	.0996
8.90	.172	636.50	1.952E-03	.0855	2.419E-03	.1060	2.748E-03	.1204	2.349E-03	.1029
9.36	.181	629.33	1.923E-03	.0843	2.382E-03	.1044	2.705E-03	.1185	2.313E-03	.1014
9.82	.190	625.68	1.832E-03	.0803	2.266E-03	.0993	2.571E-03	.1127	2.201E-03	.0965
10.28	.199	622.79	1.761E-03	.0772	2.176E-03	.0954	2.467E-03	.1081	2.114E-03	.0926
10.74	.208	618.93	1.667E-03	.0730	2.057E-03	.0902	2.330E-03	.1021	1.999E-03	.0876
11.19	.216	624.23	1.796E-03	.0787	2.221E-03	.0973	2.519E-03	.1104	2.157E-03	.0945
11.65	.225	622.52	1.754E-03	.0769	2.168E-03	.0950	2.458E-03	.1077	2.106E-03	.0923
12.10	.234	622.90	1.764E-03	.0773	2.180E-03	.0955	2.471E-03	.1083	2.118E-03	.0928
12.54	.242	620.70	1.710E-03	.0749	2.112E-03	.0925	2.393E-03	.1049	2.052E-03	.0899
12.99	.251	612.83	1.521E-03	.0667	1.874E-03	.0821	2.120E-03	.0929	1.822E-03	.0798
13.43	.260	620.55	1.706E-03	.0748	2.101E-03	.0923	2.388E-03	.1046	2.047E-03	.0897
13.87	.268	621.21	1.722E-03	.0755	2.128E-03	.0932	2.411E-03	.1057	2.067E-03	.0906

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
25	7	TILE INSERT	0.111	.010	0	9.250E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.4	1308	29.63	30.01	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0442	1.969	3815	3.893E-05	7.665E-08	1.938E 06	2.282E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.464	2.830	11.876	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
14.30	.277	621.17	1.721E-03	.0754	2.127E-03	.0932	2.410E-03	.1056	2.066E-03	.0905
14.74	.285	622.79	1.761E-03	.0772	2.177E-03	.0954	2.468E-03	.1081	2.114E-03	.0927
15.17	.293	622.56	1.755E-03	.0769	2.170E-03	.0951	2.460E-03	.1078	2.108E-03	.0924
15.60	.302	614.18	1.554E-03	.0681	1.915E-03	.0839	2.167E-03	.0949	1.861E-03	.0816
16.03	.310	624.38	1.800E-03	.0789	2.226E-03	.0976	2.525E-03	.1106	2.162E-03	.0948
16.45	.318	627.29	1.872E-03	.0820	2.318E-03	.1016	2.631E-03	.1153	2.251E-03	.0986
16.87	.326	628.05	1.891E-03	.0829	2.342E-03	.1026	2.659E-03	.1165	2.274E-03	.0997
17.29	.334	632.30	1.999E-03	.0876	2.478E-03	.1086	2.816E-03	.1234	2.406E-03	.1055
17.71	.342	633.23	2.022E-03	.0886	2.508E-03	.1099	2.851E-03	.1249	2.435E-03	.1067
18.12	.350	625.83	1.836E-03	.0805	2.272E-03	.0996	2.578E-03	.1130	2.207E-03	.0967
18.54	.358	638.13	2.148E-03	.0941	2.670E-03	.1170	3.038E-03	.1331	2.591E-03	.1136
18.95	.366	641.43	2.235E-03	.0979	2.780E-03	.1218	3.167E-03	.1388	2.698E-03	.1182
19.35	.374	644.62	2.319E-03	.1016	2.889E-03	.1266	3.293E-03	.1443	2.803E-03	.1228
19.76	.382	647.21	2.388E-03	.1047	2.978E-03	.1305	3.397E-03	.1489	2.889E-03	.1266
20.16	.390	646.09	2.380E-03	.1043	2.967E-03	.1300	3.384E-03	.1483	2.879E-03	.1261
20.56	.397	637.35	2.128E-03	.0933	2.644E-03	.1159	3.009E-03	.1319	2.567E-03	.1125
20.96	.405	650.33	2.473E-03	.1084	3.087E-03	.1353	3.525E-03	.1545	2.995E-03	.1312
21.35	.413	657.26	2.665E-03	.1168	3.335E-03	.1462	3.815E-03	.1672	3.234E-03	.1417
21.75	.420	662.79	2.825E-03	.1238	3.544E-03	.1553	4.060E-03	.1779	3.435E-03	.1505
22.14	.428	666.86	2.947E-03	.1291	3.703E-03	.1623	4.247E-03	.1861	3.588E-03	.1572
22.52	.435	669.37	3.023E-03	.1325	3.802E-03	.1666	4.364E-03	.1912	3.684E-03	.1614
22.91	.443	672.08	3.106E-03	.1361	3.910E-03	.1713	4.492E-03	.1968	3.788E-03	.1660

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
25	7	TILE INSERT	0.111	.010	0	9.250E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.4	1308	29.63	30.01	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0442	1.969	3815	3.893E-05	7.665E-08	1.938E 06	2.282E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.464	2.830	11.876	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
23.29	.450	660.06	2.745E-03	.1203	3.439E-03	.1507	3.937E-03	.1725	3.334E-03	.1461
23.67	.458	678.04	3.290E-03	.1442	4.152E-03	.1820	4.779E-03	.2094	4.021E-03	.1762
24.05	.465	683.09	3.449E-03	.1511	4.362E-03	.1911	5.027E-03	.2203	4.223E-03	.1850
24.42	.472	684.72	3.500E-03	.1534	4.430E-03	.1942	5.109E-03	.2239	4.289E-03	.1879
24.80	.479	687.94	3.603E-03	.1579	4.567E-03	.2001	5.272E-03	.2310	4.420E-03	.1937
25.17	.486	690.17	3.675E-03	.1611	4.662E-03	.2043	5.386E-03	.2360	4.512E-03	.1977
25.53	.494	688.35	3.617E-03	.1585	4.585E-03	.2009	5.293E-03	.2320	4.437E-03	.1944
25.90	.501	665.74	2.914E-03	.1277	3.660E-03	.1604	4.196E-03	.1839	3.547E-03	.1554

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
25	7	TILE INSERT	0.111	.010	0	9.250E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.4	1308	29.63	30.01	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0442	1.969	3815	3.893E-05	7.665E-08	1.938E 06	2.282E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.464	2.830	11.876	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.241	540.74	540.21	538.26	537.62	537.00	536.88	0	0	528.54	529.12
2.238	544.53	543.65	540.83	539.50	538.26	537.56	0	0	528.98	529.61
3.234	547.26	546.23	542.92	541.09	539.30	538.24	0	0	529.43	530.19
4.231	549.57	548.40	544.74	542.56	540.24	538.88	0	0	529.88	530.73
5.227	551.58	550.30	546.38	543.94	541.18	539.53	0	0	530.46	531.14
6.224	553.42	552.02	547.87	545.21	542.06	540.15	0	0	530.87	531.72
7.221	555.11	553.60	549.33	546.44	542.95	540.80	0	0	531.31	532.30
8.217	556.65	555.11	550.68	547.61	543.83	541.42	0	0	531.76	532.70
9.214	558.13	556.51	551.96	548.75	544.68	542.03	0	0	532.25	533.19
10.210	559.52	557.84	553.19	549.83	545.53	542.68	0	0	532.70	533.69
11.207	560.83	559.12	554.35	550.91	546.41	543.33	0	0	533.19	534.18
12.203	562.10	560.34	555.52	551.96	547.23	543.97	0	0	533.60	534.67
13.200	563.29	561.49	556.62	552.95	548.08	544.62	0	0	534.04	535.16
14.197	564.44	562.62	557.70	553.97	548.93	545.32	0	0	534.54	535.61
15.193	565.57	563.72	558.74	554.93	549.74	545.97	0	0	534.98	536.01
16.190	566.64	564.79	559.78	555.89	550.59	546.70	0	0	535.38	536.59
17.186	567.70	565.83	560.77	556.85	551.44	547.37	0	0	535.88	536.95

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 11/18/75

~~NASA/RI OH69~~
V41B-E>-

~~VON KARMAN GAS DYNAMICS FACILITY~~
50 INCH HYPERSONIC TUNNEL B

~~L = 4 311 FT~~

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
25	7	TILE INSERT	0.111	.010	0	9.250E-05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.4	1308	29.63	30.01	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0442	1.969	3815	3.893E-05	7.665E-08	1.938E 06	2.282E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.464	2.830	11.876	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.998	1
11.445	2

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
26	7	TILE INSERT	0.111	.010	0	9.233E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	422.8	1306	39.43	40.01	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0440	1.962	3813	3.884E-05	7.655E-08	1.934E 06	2.277E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.218	2.866	7.609	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.20	.139	596.55	1.269E-03	.0557	1.556E-03	.0683	1.753E-03	.0770	1.445E-03	.0634
7.77	.150	639.81	2.558E-03	.1124	3.182E-03	.1397	3.624E-03	.1591	2.938E-03	.1290
8.33	.161	642.46	2.645E-03	.1161	3.293E-03	.1446	3.753E-03	.1648	3.039E-03	.1335
8.89	.172	646.82	2.789E-03	.1225	3.478E-03	.1527	3.988E-03	.1742	3.208E-03	.1409
9.45	.183	643.68	2.685E-03	.1179	3.344E-03	.1469	3.813E-03	.1674	3.086E-03	.1355
10.00	.193	643.91	2.693E-03	.1182	3.354E-03	.1473	3.824E-03	.1679	3.095E-03	.1359
10.54	.204	635.93	2.435E-03	.1069	3.024E-03	.1328	3.440E-03	.1511	2.794E-03	.1227
11.08	.214	642.23	2.638E-03	.1158	3.284E-03	.1442	3.742E-03	.1643	3.031E-03	.1331
11.62	.225	644.29	2.705E-03	.1188	3.371E-03	.1480	3.843E-03	.1688	3.110E-03	.1366
12.15	.235	644.29	2.705E-03	.1188	3.371E-03	.1480	3.843E-03	.1688	3.110E-03	.1366
12.68	.245	645.11	2.733E-03	.1200	3.406E-03	.1496	3.884E-03	.1706	3.142E-03	.1380
13.20	.255	645.93	2.760E-03	.1212	3.441E-03	.1511	3.925E-03	.1724	3.174E-03	.1394
13.72	.265	652.46	2.980E-03	.1308	3.724E-03	.1635	4.255E-03	.1869	3.432E-03	.1507
14.23	.275	658.13	3.175E-03	.1394	3.976E-03	.1746	4.551E-03	.1998	3.662E-03	.1608
14.74	.285	661.17	3.284E-03	.1442	4.117E-03	.1808	4.716E-03	.2071	3.790E-03	.1664
15.24	.295	668.19	3.544E-03	.1556	4.456E-03	.1957	5.114E-03	.2246	4.097E-03	.1799
15.74	.304	661.80	3.307E-03	.1452	4.148E-03	.1822	4.752E-03	.2087	3.817E-03	.1676
16.23	.314	677.37	3.893E-03	.1709	4.913E-03	.2158	5.655E-03	.2483	4.510E-03	.1981
16.72	.323	684.20	4.159E-03	.1826	5.264E-03	.2312	6.072E-03	.2666	4.827E-03	.2120
17.20	.333	692.18	4.476E-03	.1966	5.686E-03	.2497	6.575E-03	.2887	5.207E-03	.2287
17.68	.342	698.10	4.717E-03	.2072	6.008E-03	.2638	6.960E-03	.3057	5.496E-03	.2413

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
26	7	TILE INSERT	0.111	.010	0	9.233E-05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	422.8	1306	39.43	40.01	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0440	1.962	3813	3.884E-05	7.655E-08	1.934E 06	2.277E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.218	2.866	7.609	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
18.15	.351	690.30	4.401E-03	.1933	5.586E-03	.2453	6.455E-03	.2835	5.117E-03	.2247
18.62	.360	707.24	5.097E-03	.2238	6.519E-03	.2863	7.575E-03	.3327	5.953E-03	.2614
19.09	.369	714.54	5.408E-03	.2375	6.940E-03	.3048	8.086E-03	.3551	6.330E-03	.2780
19.55	.378	719.17	5.608E-03	.2463	7.214E-03	.3168	8.419E-03	.3697	6.573E-03	.2887
20.00	.387	719.71	5.632E-03	.2473	7.246E-03	.3182	8.458E-03	.3714	6.602E-03	.2899
20.45	.395	720.73	5.677E-03	.2493	7.307E-03	.3209	8.533E-03	.3747	6.656E-03	.2923
20.90	.404	717.44	5.534E-03	.2430	7.112E-03	.3123	8.295E-03	.3643	6.482E-03	.2847
21.34	.413	736.29	6.375E-03	.2799	8.271E-03	.3632	9.715E-03	.4266	7.510E-03	.3298
21.78	.421	742.69	6.671E-03	.2930	8.684E-03	.3814	1.023E-02	.4491	7.875E-03	.3458
22.21	.429	746.39	6.846E-03	.3006	8.930E-03	.3921	1.053E-02	.4625	8.091E-03	.3553
22.63	.438	750.09	7.022E-03	.3084	9.179E-03	.4031	1.084E-02	.4762	8.309E-03	.3649
23.06	.446	748.76	6.959E-03	.3056	9.089E-03	.3991	1.073E-02	.4713	8.231E-03	.3615
23.47	.454	738.61	6.483E-03	.2847	8.421E-03	.3698	9.901E-03	.4348	7.643E-03	.3356
23.88	.462	758.81	7.447E-03	.3270	9.781E-03	.4295	1.160E-02	.5094	8.838E-03	.3881
24.29	.470	760.13	7.513E-03	.3299	9.875E-03	.4337	1.172E-02	.5146	8.920E-03	.3917
24.69	.477	757.92	7.404E-03	.3251	9.720E-03	.4269	1.152E-02	.5060	8.784E-03	.3858
25.09	.485	759.17	7.466E-03	.3279	9.808E-03	.4307	1.163E-02	.5109	8.861E-03	.3891
25.49	.493	757.47	7.382E-03	.3242	9.689E-03	.4255	1.148E-02	.5043	8.757E-03	.3846
25.87	.500	728.73	6.034E-03	.2650	7.799E-03	.3425	9.134E-03	.4011	7.092E-03	.3115

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
26	7	TILE INSERT	0.111	.010	0	9.233E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	422.8	1306	39.43	40.01	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0440	1.962	3813	3.884E-05	7.655E-08	1.934E 06	2.277E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.218	2.866	7.609	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.257	542.15	542.09	540.53	540.03	539.74	539.56	0	0	531.00	533.15
2.254	545.79	545.56	543.24	542.09	541.00	540.42	0	0	532.48	535.25
3.250	548.40	548.05	545.35	543.83	542.18	541.24	0	0	534.04	537.08
4.247	550.56	550.12	547.17	545.35	543.27	542.03	0	0	535.74	539.04
5.243	552.49	551.93	548.81	546.76	544.30	542.80	0	0	537.39	540.83
6.240	554.24	553.62	550.30	548.05	545.29	543.53	0	0	539.09	542.65
7.237	555.87	555.17	551.70	549.28	546.23	544.24	0	0	540.69	544.34
8.233	557.38	556.62	553.04	550.47	547.14	544.94	0	0	542.34	546.03
9.230	558.80	557.99	554.32	551.61	548.08	545.68	0	0	543.94	547.71
10.226	560.16	559.32	555.55	552.72	548.95	546.38	0	0	545.54	549.35
11.223	561.44	560.54	556.71	553.80	549.83	547.08	0	0	547.18	551.04
12.219	562.68	561.75	557.87	554.85	550.74	547.78	0	0	548.73	552.59
13.216	563.87	562.94	558.97	555.87	551.61	548.52	0	0	550.33	554.22
14.213	565.02	564.07	560.05	556.88	552.49	549.25	0	0	551.92	555.86
15.209	566.12	565.14	561.09	557.87	553.33	550.01	0	0	553.52	557.58

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
26	7	TILE INSERT	0.111	.010	0	9.233E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	422.8	1306	39.43	40.01	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0440	1.962	3813	3.884E-05	7.655E-08	1.934E 06	2.277E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.218	2.866	7.609	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.987	1
8.453	2
12.032	3

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
26	7	TILE INSERT	0.111	.010	0	9.233E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	422.8	1306	39.43	40.01	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0440	1.962	3813	3.884E-05	7.655E-08	1.934E 06	2.277E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.218	2.866	7.609	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.20	.139	596.55	1.269E-03	.0557	1.556E-03	.0683	1.753E-03	.0770	1.445E-03	.0634
7.77	.150	639.81	2.558E-03	.1124	3.182E-03	.1397	3.624E-03	.1591	2.938E-03	.1290
8.33	.161	642.46	2.645E-03	.1161	3.293E-03	.1446	3.753E-03	.1648	3.039E-03	.1335
8.89	.172	646.82	2.789E-03	.1225	3.478E-03	.1527	3.968E-03	.1742	3.208E-03	.1409
9.45	.183	643.60	2.685E-03	.1179	3.344E-03	.1469	3.813E-03	.1674	3.086E-03	.1355
10.00	.193	643.91	2.693E-03	.1182	3.354E-03	.1473	3.824E-03	.1679	3.095E-03	.1359
10.54	.204	635.93	2.435E-03	.1069	3.024E-03	.1328	3.440E-03	.1511	2.794E-03	.1227
11.08	.214	642.23	2.638E-03	.1158	3.284E-03	.1442	3.742E-03	.1643	3.031E-03	.1331
11.62	.225	644.29	2.705E-03	.1188	3.371E-03	.1480	3.843E-03	.1688	3.110E-03	.1366
12.15	.235	644.29	2.705E-03	.1188	3.371E-03	.1480	3.843E-03	.1688	3.110E-03	.1366
12.68	.245	645.11	2.733E-03	.1200	3.406E-03	.1496	3.884E-03	.1706	3.142E-03	.1380
13.20	.255	645.93	2.760E-03	.1212	3.441E-03	.1511	3.925E-03	.1724	3.174E-03	.1394
13.72	.265	652.46	2.980E-03	.1308	3.724E-03	.1635	4.255E-03	.1869	3.432E-03	.1507
14.23	.275	658.13	3.175E-03	.1394	3.976E-03	.1746	4.551E-03	.1998	3.662E-03	.1608
14.74	.285	661.17	3.284E-03	.1442	4.117E-03	.1808	4.716E-03	.2071	3.790E-03	.1664
15.24	.295	668.19	3.544E-03	.1556	4.456E-03	.1957	5.114E-03	.2246	4.097E-03	.1799
15.74	.304	661.80	3.307E-03	.1452	4.148E-03	.1822	4.752E-03	.2087	3.817E-03	.1676
16.23	.314	677.37	3.893E-03	.1709	4.913E-03	.2158	5.655E-03	.2483	4.510E-03	.1981
16.72	.323	684.20	4.159E-03	.1826	5.264E-03	.2312	6.072E-03	.2666	4.827E-03	.2120
17.20	.333	692.18	4.476E-03	.1966	5.686E-03	.2497	6.575E-03	.2887	5.207E-03	.2287
17.68	.342	698.10	4.717E-03	.2072	6.008E-03	.2638	6.960E-03	.3057	5.496E-03	.2413

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
26	7	TILE INSERT	0.111	.010	0	9.233E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	422.8	1306	39.43	40.01	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0440	1.962	3813	3.884E-05	7.655E-08	1.934E 06	2.277E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.218	2.866	7.609	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
18.15	.351	690.30	4.401E-03	.1933	5.586E-03	.2453	6.455E-03	.2835	5.117E-03	.2247
18.62	.360	707.24	5.097E-03	.2238	6.519E-03	.2863	7.575E-03	.3327	5.953E-03	.2614
19.09	.369	714.54	5.408E-03	.2375	6.940E-03	.3048	8.086E-03	.3551	6.330E-03	.2780
19.55	.378	719.17	5.608E-03	.2463	7.214E-03	.3168	8.419E-03	.3697	6.573E-03	.2887
20.00	.387	719.71	5.632E-03	.2473	7.246E-03	.3182	8.458E-03	.3714	6.602E-03	.2899
20.45	.395	720.73	5.677E-03	.2493	7.307E-03	.3209	8.533E-03	.3747	6.656E-03	.2923
20.90	.404	717.44	5.534E-03	.2430	7.112E-03	.3123	8.295E-03	.3643	6.482E-03	.2847
21.34	.413	736.29	6.375E-03	.2799	8.271E-03	.3632	9.715E-03	.4266	7.510E-03	.3298
21.78	.421	742.69	6.671E-03	.2930	8.684E-03	.3814	1.023E-02	.4491	7.875E-03	.3458
22.21	.429	746.39	6.846E-03	.3006	8.930E-03	.3921	1.053E-02	.4625	8.091E-03	.3553
22.63	.438	750.09	7.022E-03	.3084	9.179E-03	.4031	1.084E-02	.4762	8.309E-03	.3649
23.06	.446	748.76	6.959E-03	.3056	9.089E-03	.3991	1.073E-02	.4713	8.231E-03	.3615
23.47	.454	738.61	6.483E-03	.2847	8.421E-03	.3698	9.901E-03	.4348	7.643E-03	.3356
23.88	.462	758.81	7.447E-03	.3270	9.781E-03	.4295	1.160E-02	.5094	8.838E-03	.3881
24.29	.470	760.13	7.513E-03	.3299	9.875E-03	.4337	1.172E-02	.5146	8.920E-03	.3917
24.69	.477	757.92	7.404E-03	.3251	9.720E-03	.4269	1.152E-02	.5060	8.784E-03	.3858
25.09	.485	759.17	7.466E-03	.3279	9.808E-03	.4307	1.163E-02	.5109	8.861E-03	.3891
25.49	.493	757.47	7.382E-03	.3242	9.689E-03	.4255	1.148E-02	.5043	8.757E-03	.3846
25.87	.500	728.73	6.034E-03	.2650	7.799E-03	.3425	9.134E-03	.4011	7.092E-03	.3115

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
26	7	TILE INSERT	0.111	.010	0	9.233E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	422.8	1306	39.43	40.01	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0440	1.962	3813	3.884E-05	7.655E-08	1.934E 06	2.277E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.218	2.866	7.609	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.257	542.15	542.09	540.53	540.03	539.74	539.56	0	0	531.00	533.15
2.254	545.79	545.56	543.24	542.09	541.00	540.42	0	0	532.48	535.25
3.250	548.40	548.05	545.35	543.83	542.18	541.24	0	0	534.04	537.08
4.247	550.56	550.12	547.17	545.35	543.27	542.03	0	0	535.74	539.04
5.243	552.49	551.93	548.81	546.76	544.30	542.80	0	0	537.39	540.83
6.240	554.24	553.62	550.30	548.05	545.29	543.53	0	0	539.09	542.65
7.237	555.87	555.17	551.70	549.28	546.23	544.24	0	0	540.69	544.34
8.233	557.38	556.62	553.04	550.47	547.14	544.94	0	0	542.34	546.03
9.230	558.80	557.99	554.32	551.61	548.08	545.68	0	0	543.94	547.71
10.226	560.16	559.32	555.55	552.72	548.95	546.38	0	0	545.54	549.35
11.223	561.44	560.54	556.71	553.80	549.83	547.08	0	0	547.18	551.04
12.219	562.68	561.75	557.87	554.85	550.74	547.78	0	0	548.73	552.59
13.216	563.87	562.94	558.97	555.87	551.61	548.52	0	0	550.33	554.22
14.213	565.02	564.07	560.05	556.88	552.49	549.25	0	0	551.92	555.86
15.209	566.12	565.14	561.09	557.87	553.33	550.01	0	0	553.52	557.58

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
26	7	TILE INSERT	0.111	.010	0	9.233E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	422.8	1306	39.43	40.01	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0440	1.962	3813	3.884E-05	7.655E-08	1.934E 06	2.277E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.218	2.866	7.609	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.987	1
8.453	2
12.032	3

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 IN. HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
27	7	TILE INSERT	0.111	.010	0	7.102E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.0	1295	29.70	29.99	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0338	1.497	3796	2.589E-05	7.627E-08	1.488E 06	1.986E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.080	2.917	25.443	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.61	.089	622.00	1.128E-03	.0568	1.396E-03	.0703	1.585E-03	.0798	1.356E-03	.0683
5.10	.099	638.94	1.423E-03	.0716	1.773E-03	.0892	2.021E-03	.1018	1.720E-03	.0866
5.58	.108	581.47	4.959E-04	.0250	6.059E-04	.0305	6.814E-04	.0343	5.897E-04	.0297
7.49	.145	620.72	1.106E-03	.0557	1.369E-03	.0689	1.554E-03	.0782	1.330E-03	.0670
7.96	.154	643.50	1.506E-03	.0758	1.879E-03	.0946	2.145E-03	.1080	1.823E-03	.0918
8.43	.163	648.93	1.606E-03	.0809	2.009E-03	.1011	2.297E-03	.1156	1.948E-03	.0981
8.90	.172	649.28	1.613E-03	.0812	2.017E-03	.1016	2.307E-03	.1161	1.957E-03	.0985
9.36	.181	647.68	1.583E-03	.0797	1.979E-03	.0996	2.262E-03	.1139	1.919E-03	.0966
9.82	.190	643.65	1.509E-03	.0760	1.883E-03	.0948	2.150E-03	.1082	1.827E-03	.0920
10.28	.199	639.55	1.434E-03	.0722	1.787E-03	.0900	2.038E-03	.1026	1.734E-03	.0873
10.74	.208	634.45	1.343E-03	.0676	1.670E-03	.0841	1.902E-03	.0958	1.621E-03	.0816
11.19	.216	639.64	1.436E-03	.0723	1.789E-03	.0901	2.040E-03	.1027	1.736E-03	.0874
11.65	.225	638.97	1.424E-03	.0717	1.774E-03	.0893	2.022E-03	.1018	1.721E-03	.0867
12.10	.234	637.33	1.394E-03	.0702	1.736E-03	.0874	1.978E-03	.0996	1.685E-03	.0848
12.54	.242	636.64	1.382E-03	.0696	1.720E-03	.0866	1.960E-03	.0987	1.669E-03	.0840
12.99	.251	626.35	1.202E-03	.0605	1.491E-03	.0750	1.694E-03	.0853	1.447E-03	.0729
13.43	.260	633.81	1.332E-03	.0670	1.656E-03	.0834	1.885E-03	.0949	1.607E-03	.0809
13.87	.268	634.55	1.345E-03	.0677	1.673E-03	.0842	1.905E-03	.0959	1.624E-03	.0817
14.30	.277	635.15	1.355E-03	.0682	1.686E-03	.0849	1.921E-03	.0967	1.637E-03	.0824
14.74	.285	636.11	1.373E-03	.0691	1.708E-03	.0860	1.946E-03	.0980	1.658E-03	.0835
15.17	.293	635.45	1.361E-03	.0685	1.693E-03	.0852	1.929E-03	.0971	1.643E-03	.0827

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
27	7	TILE INSERT	0.111	.010	0	7.102E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.0	1295	29.70	29.99	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0338	1.497	3796	2.989E-05	7.627E-08	1.488E 06	1.986E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.080	2.917	25.443	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.60	.302	623.56	1.154E-03	.0581	1.430E-03	.0720	1.624E-03	.0818	1.389E-03	.0699
16.03	.310	635.38	1.360E-03	.0685	1.692E-03	.0852	1.927E-03	.0970	1.642E-03	.0827
16.45	.318	638.14	1.409E-03	.0709	1.755E-03	.0883	2.000E-03	.1007	1.703E-03	.0857
16.87	.326	640.02	1.443E-03	.0726	1.798E-03	.0905	2.051E-03	.1033	1.745E-03	.0878
17.29	.334	644.05	1.516E-03	.0763	1.893E-03	.0953	2.161E-03	.1088	1.836E-03	.0924
17.71	.342	645.88	1.550E-03	.0780	1.936E-03	.0975	2.212E-03	.1114	1.878E-03	.0946
18.12	.350	637.23	1.393E-03	.0701	1.734E-03	.0873	1.976E-03	.0995	1.683E-03	.0847
18.54	.358	649.54	1.618E-03	.0815	2.024E-03	.1019	2.315E-03	.1165	1.963E-03	.0988
18.95	.366	650.53	1.637E-03	.0824	2.049E-03	.1031	2.343E-03	.1180	1.987E-03	.1000
19.35	.374	654.51	1.713E-03	.0862	2.147E-03	.1081	2.458E-03	.1238	2.081E-03	.1048
19.76	.382	654.19	1.706E-03	.0859	2.138E-03	.1077	2.448E-03	.1233	2.073E-03	.1044
20.16	.390	654.76	1.717E-03	.0865	2.153E-03	.1084	2.465E-03	.1241	2.087E-03	.1051
20.56	.397	643.75	1.511E-03	.0761	1.886E-03	.0949	2.153E-03	.1084	1.829E-03	.0921
20.96	.405	654.79	1.718E-03	.0865	2.153E-03	.1084	2.466E-03	.1242	2.088E-03	.1051
21.35	.413	660.86	1.837E-03	.0925	2.308E-03	.1162	2.648E-03	.1333	2.237E-03	.1126
21.75	.420	663.67	1.895E-03	.0954	2.383E-03	.1200	2.736E-03	.1378	2.309E-03	.1163
22.14	.428	666.06	1.944E-03	.0979	2.448E-03	.1233	2.813E-03	.1416	2.372E-03	.1194
22.52	.435	667.85	1.981E-03	.0998	2.497E-03	.1257	2.870E-03	.1445	2.419E-03	.1218
22.91	.443	668.78	2.001E-03	.1007	2.522E-03	.1270	2.900E-03	.1460	2.444E-03	.1230
23.29	.450	655.47	1.731E-03	.0872	2.171E-03	.1093	2.486E-03	.1252	2.104E-03	.1059
23.67	.458	670.26	2.032E-03	.1023	2.564E-03	.1291	2.949E-03	.1485	2.483E-03	.1250
24.05	.465	674.13	2.114E-03	.1064	2.671E-03	.1345	3.077E-03	.1549	2.587E-03	.1302

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
27	7	TILE INSERT	0.111	.010	0	7.102E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.0	1295	29.70	29.99	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0338	1.497	3796	2.989E-05	7.627E-08	1.488E 06	1.986E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.080	2.917	25.443	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.42	.472	675.12	2.135E-03	.1075	2.699E-03	.1359	3.110E-03	.1566	2.614E-03	.1316
24.80	.479	673.93	2.110E-03	.1062	2.666E-03	.1342	3.070E-03	.1546	2.581E-03	.1300
25.17	.486	675.54	2.144E-03	.1080	2.711E-03	.1365	3.124E-03	.1573	2.625E-03	.1322
25.53	.494	675.65	2.147E-03	.1081	2.714E-03	.1367	3.128E-03	.1575	2.628E-03	.1323
25.90	.501	654.87	1.720E-03	.0866	2.156E-03	.1085	2.469E-03	.1243	2.090E-03	.1052

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
27	7	TILE INSERT	0.111	.010	0	7.102E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.0	1295	29.70	29.99	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0338	1.497	3796	2.589E-05	7.627E-08	1.488E 06	1.986E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.080	2.917	25.443	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.279	541.83	541.45	539.74	539.21	538.68	538.59	0	0	532.61	533.10
2.276	545.06	544.41	541.95	540.80	539.86	539.24	0	0	532.88	533.33
3.272	547.43	546.61	543.74	542.18	540.71	539.80	0	0	533.15	533.60
4.269	549.39	548.43	545.29	543.45	541.53	540.36	0	0	533.42	533.87
5.265	551.09	550.07	546.70	544.62	542.33	540.92	0	0	533.60	534.13
6.262	552.69	551.55	547.99	545.70	543.09	541.42	0	0	533.87	534.40
7.259	554.12	552.90	549.22	546.76	543.86	541.98	0	0	534.13	534.67
8.255	555.46	554.18	550.36	547.78	544.59	542.50	0	0	534.40	534.85
9.252	556.71	555.37	551.47	548.72	545.35	543.06	0	0	534.63	535.12
10.248	557.90	556.53	552.52	549.66	546.09	543.59	0	0	534.85	535.34
11.245	559.03	557.61	553.54	550.56	546.79	544.12	0	0	535.12	535.65
12.241	560.07	558.65	554.50	551.47	547.52	544.71	0	0	535.34	535.83
13.238	561.12	559.67	555.46	552.34	548.22	545.24	0	0	535.56	536.14
14.235	562.10	560.63	556.39	553.19	548.95	545.85	0	0	535.74	536.37
15.231	563.06	561.55	557.26	554.03	549.66	546.44	0	0	536.05	536.64
16.228	564.01	562.48	558.13	554.82	550.36	546.99	0	0	536.28	536.86
17.224	564.90	563.35	558.97	555.63	551.06	547.61	0	0	536.50	537.08
18.221	565.77	564.21	559.81	556.42	551.76	548.19	0	0	536.72	537.26
19.217	566.64	565.05	560.63	557.20	552.46	548.81	0	0	536.99	537.57
20.214	567.47	565.89	561.44	557.96	553.16	549.42	0	0	537.17	537.84
21.211	568.31	566.69	562.22	558.71	553.83	550.01	0	0	537.44	538.02

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
27	7	TILE INSERT	0.111	.010	0	7.102E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.0	1295	29.70	29.99	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0338	1.497	3796	2.989E-05	7.627E-08	1.488E 06	1.986E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.080	2.917	25.443	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.207	569.11	567.50	563.00	559.47	554.53	550.62	0	0	537.62	538.20
23.204	569.89	568.28	563.78	560.19	555.23	551.23	0	0	537.88	538.51
24.200	570.66	569.03	564.50	560.91	555.89	551.88	0	0	538.11	538.69
25.197	571.41	569.77	565.25	561.64	556.56	552.52	0	0	538.38	538.95
26.193	572.19	570.52	565.97	562.33	557.26	553.10	0	0	538.55	539.27
27.190	572.93	571.27	566.69	563.06	557.93	553.71	0	0	538.82	539.40
28.187	573.68	571.99	567.47	563.75	558.62	554.35	0	0	539.04	539.67
29.183	574.39	572.73	568.16	564.47	559.26	554.99	0	0	539.22	539.89
30.180	575.11	573.45	568.85	565.14	559.93	555.63	0	0	539.49	540.07
31.176	575.80	574.14	569.57	565.83	560.60	556.24	0	0	539.76	540.34
32.173	576.51	574.82	570.26	566.52	561.29	556.88	0	0	539.98	540.56
33.169	577.20	575.54	570.95	567.24	561.93	557.52	0	0	540.20	540.74
34.166	577.91	576.23	571.64	567.90	562.59	558.16	0	0	540.43	541.00

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
27	7	TILE INSERT	0.111	.010	0	7.102E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.0	1295	29.70	29.99	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0338	1.497	3796	2.989E-05	7.627E-08	1.488E 06	1.986E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.080	2.917	25.443	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
8.132	1
16.593	2
23.761	3
28.433	4

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AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
28	7	TILE INSERT	0.111	.010	0	7.075E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	318.4	1297	39.56	40.00	30.00	-9.56	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0337	1.494	3799	2.980E-05	7.636E-08	1.482E 06	1.985E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
33.994	3.003	32.308	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
6.63	.128	582.30	5.417E-04	.0273	6.618E-04	.0333	7.444E-04	.0375	6.154E-04	.0310
7.20	.139	667.53	1.856E-03	.0935	2.338E-03	.1178	2.687E-03	.1354	2.149E-03	.1083
7.77	.150	686.94	2.231E-03	.1124	2.833E-03	.1427	3.275E-03	.1650	2.595E-03	.1307
8.33	.161	699.77	2.490E-03	.1255	3.181E-03	.1603	3.694E-03	.1861	2.907E-03	.1464
8.89	.172	699.01	2.474E-03	.1247	3.160E-03	.1592	3.668E-03	.1848	2.888E-03	.1455
9.45	.183	693.75	2.367E-03	.1193	3.016E-03	.1519	3.494E-03	.1761	2.758E-03	.1390
10.00	.193	684.66	2.186E-03	.1101	2.773E-03	.1397	3.204E-03	.1614	2.541E-03	.1280
10.54	.204	686.09	2.214E-03	.1115	2.811E-03	.1416	3.249E-03	.1637	2.574E-03	.1297
11.08	.214	686.24	2.217E-03	.1117	2.815E-03	.1418	3.253E-03	.1639	2.578E-03	.1299
11.62	.225	687.49	2.242E-03	.1129	2.848E-03	.1435	3.293E-03	.1659	2.608E-03	.1314
12.15	.235	686.14	2.215E-03	.1116	2.812E-03	.1417	3.250E-03	.1638	2.576E-03	.1298
12.68	.245	675.88	2.015E-03	.1015	2.547E-03	.1283	2.934E-03	.1478	2.337E-03	.1177
13.20	.255	682.70	2.147E-03	.1082	2.722E-03	.1371	3.143E-03	.1583	2.495E-03	.1257
13.72	.265	685.02	2.193E-03	.1105	2.783E-03	.1402	3.215E-03	.1620	2.549E-03	.1284
14.23	.275	685.48	2.202E-03	.1109	2.795E-03	.1408	3.230E-03	.1627	2.560E-03	.1290
14.74	.285	688.14	2.255E-03	.1136	2.865E-03	.1444	3.314E-03	.1670	2.623E-03	.1322
15.24	.295	674.83	1.995E-03	.1005	2.520E-03	.1270	2.903E-03	.1462	2.313E-03	.1165
15.74	.304	689.96	2.291E-03	.1154	2.914E-03	.1468	3.372E-03	.1699	2.667E-03	.1344
16.23	.314	691.89	2.330E-03	.1174	2.966E-03	.1494	3.434E-03	.1730	2.714E-03	.1367
16.72	.323	696.82	2.430E-03	.1224	3.100E-03	.1562	3.596E-03	.1812	2.834E-03	.1428
17.20	.333	701.06	2.517E-03	.1268	3.218E-03	.1621	3.738E-03	.1883	2.939E-03	.1481

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
28	7	TILE INSERT	0.111	.010	0	7.075E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	318.4	1297	39.56	40.00	30.00	-9.56	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (B=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0337	1.494	3799	2.580E-05	7.636E-08	1.482E 06	1.985E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
33.994	3.003	32.308	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.68	.342	696.91	2.432E-03	.1225	3.103E-03	.1563	3.599E-03	.1813	2.836E-03	.1429
18.15	.351	700.49	2.505E-03	.1262	3.202E-03	.1613	3.718E-03	.1873	2.925E-03	.1474
18.62	.360	709.49	2.694E-03	.1357	3.457E-03	.1742	4.028E-03	.2029	3.153E-03	.1588
19.09	.369	710.93	2.724E-03	.1372	3.499E-03	.1763	4.078E-03	.2055	3.190E-03	.1607
19.55	.378	714.82	2.808E-03	.1415	3.612E-03	.1820	4.217E-03	.2125	3.291E-03	.1658
20.00	.387	715.65	2.825E-03	.1423	3.637E-03	.1832	4.247E-03	.2140	3.313E-03	.1669
20.45	.395	699.41	2.483E-03	.1251	3.172E-03	.1598	3.682E-03	.1855	2.898E-03	.1460
20.90	.404	722.30	2.970E-03	.1497	3.836E-03	.1933	4.491E-03	.2263	3.490E-03	.1758
21.34	.413	729.12	3.122E-03	.1573	4.046E-03	.2038	4.749E-03	.2393	3.676E-03	.1852
21.78	.421	734.38	3.241E-03	.1633	4.212E-03	.2122	4.954E-03	.2496	3.822E-03	.1926
22.21	.429	738.12	3.327E-03	.1676	4.332E-03	.2183	5.103E-03	.2571	3.928E-03	.1979
22.63	.438	742.05	3.418E-03	.1722	4.461E-03	.2247	5.263E-03	.2652	4.041E-03	.2036
23.06	.446	725.94	3.051E-03	.1537	3.948E-03	.1989	4.628E-03	.2332	3.589E-03	.1808
23.47	.454	747.45	3.545E-03	.1786	4.640E-03	.2338	5.488E-03	.2765	4.199E-03	.2115
23.88	.462	755.80	3.746E-03	.1888	4.928E-03	.2483	5.850E-03	.2947	4.450E-03	.2242
24.29	.470	759.60	3.840E-03	.1935	5.062E-03	.2550	6.020E-03	.3033	4.567E-03	.2301
24.69	.477	762.86	3.921E-03	.1976	5.179E-03	.2609	6.168E-03	.3108	4.669E-03	.2352
25.09	.485	765.70	3.993E-03	.2012	5.282E-03	.2661	6.300E-03	.3174	4.759E-03	.2398
25.49	.493	759.06	3.827E-03	.1928	5.043E-03	.2541	5.996E-03	.3021	4.551E-03	.2293
25.87	.500	727.27	3.081E-03	.1552	3.989E-03	.2010	4.679E-03	.2357	3.625E-03	.1826

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
28	7	TILE INSERT	0.111	.010	0	7.075E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	318.4	1297	39.56	40.00	30.00	-9.56	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0337	1.494	3799	2.580E-05	7.636E-08	1.482E 06	1.985E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
33.994	3.003	32.308	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.317	541.53	541.53	540.15	539.71	539.41	539.27	0	0	528.80	530.37
2.314	544.59	544.44	542.42	541.48	540.53	540.00	0	0	529.75	531.31
3.310	546.82	546.55	544.24	542.92	541.56	540.68	0	0	530.73	532.39
4.307	548.69	548.37	545.79	544.24	542.50	541.39	0	0	531.81	533.46
5.304	550.33	549.92	547.20	545.41	543.39	542.01	0	0	532.79	534.58
6.300	551.85	551.35	548.49	546.55	544.21	542.65	0	0	533.78	535.65
7.297	553.22	552.69	549.69	547.64	545.03	543.30	0	0	534.80	536.68
8.293	554.56	553.92	550.85	548.63	545.82	543.86	0	0	535.83	537.75
9.290	555.78	555.11	551.93	549.60	546.61	544.50	0	0	536.81	538.78
10.286	556.94	556.24	552.98	550.59	547.37	545.09	0	0	537.80	539.76
11.283	558.04	557.32	554.00	551.53	548.14	545.73	0	0	538.82	540.83
12.280	559.12	558.36	554.99	552.43	548.90	546.35	0	0	539.80	541.85
13.276	560.16	559.38	555.95	553.30	549.69	546.96	0	0	540.74	542.78
14.273	561.15	560.34	556.88	554.18	550.42	547.58	0	0	541.76	543.76
15.269	562.10	561.29	557.78	555.02	551.18	548.19	0	0	542.70	544.83
16.266	563.06	562.22	558.65	555.87	551.90	548.84	0	0	543.67	545.76
17.262	563.95	563.08	559.52	556.68	552.63	549.51	0	0	544.65	546.65
18.259	564.85	563.98	560.39	557.49	553.36	550.12	0	0	545.63	547.71
19.256	565.71	564.82	561.23	558.31	554.09	550.77	0	0	546.56	548.69
20.252	566.58	565.68	562.04	559.09	554.85	551.44	0	0	547.54	549.62
21.249	567.44	566.52	562.85	559.87	555.57	552.11	0	0	548.51	550.60

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
28	7	TILE INSERT	0.111	.010	0	7.075E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	318.4	1297	39.56	40.00	30.00	-9.56	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0337	1.494	3799	2.580E-05	7.636E-08	1.482E 06	1.985E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
33.994	3.003	32.308	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.245	568.25	567.33	563.66	560.65	556.27	552.75	0	0	549.49	551.53
23.242	569.05	568.13	564.44	561.38	557.00	553.42	0	0	550.46	552.50
24.238	569.86	568.91	565.22	562.16	557.73	554.06	0	0	551.39	553.47
25.235	570.64	569.69	566.00	562.91	558.45	554.70	0	0	552.28	554.36
26.232	571.44	570.46	566.75	563.66	559.15	555.40	0	0	553.29	555.33
27.228	572.19	571.24	567.53	564.39	559.84	556.07	0	0	554.13	556.21
28.225	572.96	571.99	568.25	565.11	560.57	556.71	0	0	555.11	557.23
29.221	573.71	572.70	569.00	565.86	561.26	557.41	0	0	555.99	558.07
30.218	574.45	573.48	569.75	566.58	561.99	558.04	0	0	556.96	558.99
31.214	575.20	574.19	570.46	567.30	562.65	558.71	0	0	557.89	559.96
32.211	575.94	574.88	571.18	567.99	563.20	559.41	0	0	558.82	560.80
33.208	576.66	575.63	571.90	568.71	564.07	560.07	0	0	559.70	561.72
34.204	577.37	576.34	572.62	569.43	564.76	560.74	0	0	560.62	562.65
35.201	578.08	577.06	573.33	570.15	565.45	561.41	0	0	561.46	563.57
36.197	578.80	577.77	574.02	570.84	566.15	562.07	0	0	562.47	564.4[illegible]
37.194	579.51	578.48	574.71	571.53	566.81	562.74	0	0	563.35	565.29
38.190	580.20	579.17	575.43	572.24	567.53	563.40	0	0	564.28	566.25

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
28	7	TILE INSERT	0.111	.010	0	7.075E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	318.4	1297	39.56	40.00	30.00	-9.56	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.8	.0337	1.494	3799	2.980E-05	7.636E-08	1.482E 06	1.985E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
33.994	3.003	32.308	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.822	1
15.617	2
24.156	3
31.850	4

N-A-RI-OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
29	7	TILE INSERT	0.111	.010	0	4.799E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	210.3	1280	29.83	30.02	30.00	.17	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0226	.998	3773	2.018E-05	7.571E-08	1.006E 06	1.618E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
43.205	2.917	41.567	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
4.61	.089	574.95	4.147E-04	.0256	5.067E-04	.0313	5.699E-04	.0352	4.931E-04	.0305
5.10	.099	655.14	1.489E-03	.0920	1.872E-03	.1157	2.149E-03	.1328	1.814E-03	.1121
5.58	.108	580.24	4.754E-04	.0294	5.819E-04	.0360	6.553E-04	.0405	5.661E-04	.0350
7.49	.145	577.64	4.455E-04	.0275	5.447E-04	.0337	6.131E-04	.0379	5.300E-04	.0327
7.96	.154	645.66	1.344E-03	.0830	1.684E-03	.1040	1.927E-03	.1191	1.632E-03	.1008
8.43	.163	646.67	1.359E-03	.0840	1.703E-03	.1052	1.950E-03	.1205	1.651E-03	.1020
8.90	.172	652.31	1.445E-03	.0893	1.815E-03	.1122	2.082E-03	.1286	1.759E-03	.1087
9.36	.181	649.98	1.409E-03	.0871	1.769E-03	.1093	2.027E-03	.1253	1.714E-03	.1059
9.82	.190	647.58	1.373E-03	.0848	1.721E-03	.1064	1.972E-03	.1218	1.669E-03	.1031
10.28	.199	644.04	1.319E-03	.0815	1.652E-03	.1021	1.890E-03	.1168	1.602E-03	.0990
10.74	.208	639.03	1.116E-03	.0689	1.390E-03	.0859	1.584E-03	.0979	1.348E-03	.0833
11.19	.216	640.51	1.267E-03	.0783	1.584E-03	.0979	1.811E-03	.1119	1.536E-03	.0949
11.65	.225	641.58	1.283E-03	.0793	1.605E-03	.0992	1.835E-03	.1134	1.556E-03	.0961
12.10	.234	638.41	1.236E-03	.0764	1.545E-03	.0954	1.765E-03	.1090	1.498E-03	.0926
12.54	.242	637.77	1.227E-03	.0758	1.532E-03	.0947	1.750E-03	.1081	1.486E-03	.0918
12.99	.251	636.32	1.120E-03	.0692	1.395E-03	.0862	1.590E-03	.0982	1.353E-03	.0836
13.43	.260	631.50	1.137E-03	.0702	1.416E-03	.0875	1.615E-03	.0998	1.374E-03	.0849
13.87	.268	634.87	1.185E-03	.0732	1.478E-03	.0913	1.687E-03	.1043	1.434E-03	.0886
14.30	.277	634.97	1.186E-03	.0733	1.480E-03	.0915	1.689E-03	.1044	1.436E-03	.0887
14.74	.285	634.64	1.182E-03	.0730	1.474E-03	.0911	1.682E-03	.1039	1.430E-03	.0884
15.17	.293	636.53	1.209E-03	.0747	1.509E-03	.0933	1.723E-03	.1065	1.464E-03	.0905

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
29	7	TILE INSERT	0.111	.010	0	4.799E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	210.3	1280	29.83	30.02	30.00	.17	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0226	.998	3773	2.018E-05	7.571E-08	1.006E 06	1.618E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
43.205	2.917	41.567	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.60	.302	626.41	1.061E-03	.0656	1.319E-03	.0815	1.502E-03	.0928	1.280E-03	.0791
16.03	.310	629.79	1.113E-03	.0687	1.385E-03	.0856	1.579E-03	.0976	1.344E-03	.0831
16.45	.318	635.30	1.191E-03	.0736	1.487E-03	.0918	1.697E-03	.1048	1.442E-03	.0891
16.87	.326	636.62	1.210E-03	.0748	1.511E-03	.0934	1.725E-03	.1066	1.466E-03	.0906
17.29	.334	638.31	1.235E-03	.0763	1.543E-03	.0953	1.763E-03	.1089	1.496E-03	.0925
17.71	.342	640.58	1.268E-03	.0784	1.586E-03	.0980	1.813E-03	.1120	1.538E-03	.0950
18.12	.350	637.51	1.223E-03	.0756	1.528E-03	.0944	1.745E-03	.1078	1.482E-03	.0916
18.54	.358	639.40	1.251E-03	.0773	1.564E-03	.0966	1.787E-03	.1104	1.516E-03	.0937
18.95	.366	644.46	1.326E-03	.0819	1.661E-03	.1026	1.900E-03	.1174	1.610E-03	.0995
19.35	.374	646.43	1.356E-03	.0838	1.699E-03	.1050	1.945E-03	.1202	1.647E-03	.1018
19.76	.382	647.87	1.378E-03	.0851	1.727E-03	.1067	1.979E-03	.1223	1.674E-03	.1035
20.16	.390	647.14	1.366E-03	.0844	1.713E-03	.1058	1.962E-03	.1212	1.661E-03	.1026
20.56	.397	642.84	1.302E-03	.0804	1.629E-03	.1007	1.864E-03	.1152	1.580E-03	.0976
20.96	.405	637.90	1.229E-03	.0759	1.535E-03	.0949	1.753E-03	.1083	1.489E-03	.0920
21.35	.413	648.66	1.390E-03	.0859	1.743E-03	.1077	1.997E-03	.1234	1.689E-03	.1044
21.75	.420	651.62	1.435E-03	.0887	1.802E-03	.1113	2.067E-03	.1277	1.746E-03	.1079
22.14	.428	651.96	1.440E-03	.0890	1.809E-03	.1118	2.074E-03	.1282	1.753E-03	.1083
22.52	.435	653.76	1.468E-03	.0907	1.845E-03	.1140	2.117E-03	.1308	1.788E-03	.1105
22.91	.443	652.46	1.448E-03	.0895	1.819E-03	.1124	2.086E-03	.1289	1.763E-03	.1089
23.29	.450	641.33	1.280E-03	.0791	1.600E-03	.0989	1.830E-03	.1130	1.552E-03	.0959
23.67	.458	647.99	1.379E-03	.0852	1.730E-03	.1069	1.981E-03	.1224	1.677E-03	.1036
24.05	.465	649.58	1.404E-03	.0867	1.761E-03	.1088	2.019E-03	.1247	1.707E-03	.1055

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
29	7	TILE INSERT	0.111	.010	0	4.799E-05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	210.3	1280	29.83	30.02	30.00	.17	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0226	.998	3773	2.018E-05	7.571E-08	1.006E 06	1.618E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
43.205	2.917	41.567	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.42	.472	650.78	1.422E-03	.0879	1.785E-03	.1103	2.047E-03	.1265	1.730E-03	.1069
24.80	.479	650.29	1.415E-03	.0874	1.776E-03	.1097	2.035E-03	.1258	1.721E-03	.1063
25.17	.486	648.83	1.392E-03	.0860	1.747E-03	.1079	2.001E-03	.1236	1.693E-03	.1046
25.53	.494	647.26	1.368E-03	.0845	1.715E-03	.1060	1.965E-03	.1214	1.663E-03	.1027
25.90	.501	637.93	1.230E-03	.0760	1.536E-03	.0949	1.754E-03	.1084	1.490E-03	.0920

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
29	7	TILE INSERT	0.111	.010	0	4.799E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	210.3	1280	29.83	30.02	30.00	.17	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0226	.998	3773	2.018E-05	7.571E-08	1.006E 06	1.618E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
43.205	2.917	41.567	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.279	540.77	540.36	539.03	538.68	538.41	538.21	0	0	529.43	529.79
2.276	543.39	542.80	540.80	539.97	539.27	538.71	0	0	529.66	529.93
3.272	545.26	544.59	542.24	541.09	540.00	539.21	0	0	529.84	530.06
4.269	546.85	546.06	543.50	542.09	540.65	539.65	0	0	529.88	530.19
5.265	548.22	547.35	544.65	543.00	541.27	540.06	0	0	530.06	530.33
6.262	549.51	548.55	545.68	543.91	541.89	540.53	0	0	530.15	530.51
7.259	550.65	549.66	546.67	544.74	542.50	540.95	0	0	530.28	530.55
8.255	551.73	550.68	547.61	545.56	543.09	541.36	0	0	530.42	530.78
9.252	552.75	551.67	548.49	546.32	543.68	541.80	0	0	530.55	530.91
10.248	553.68	552.58	549.33	547.08	544.27	542.24	0	0	530.69	530.96
11.245	554.61	553.45	550.15	547.81	544.85	542.68	0	0	530.78	531.14
12.241	555.46	554.29	550.94	548.55	545.44	543.12	0	0	530.96	531.27
13.238	556.30	555.08	551.70	549.25	546.03	543.59	0	0	531.09	531.45
14.235	557.12	555.87	552.43	549.92	546.61	544.06	0	0	531.18	531.54
15.231	557.87	556.65	553.16	550.59	547.14	544.53	0	0	531.31	531.67
16.228	558.62	557.38	553.86	551.23	547.73	544.97	0	0	531.40	531.85
17.224	559.38	558.07	554.56	551.88	548.31	545.50	0	0	531.58	531.90
18.221	560.07	558.77	555.20	552.55	548.87	545.94	0	0	531.72	532.03
19.217	560.77	559.47	555.87	553.16	549.42	546.47	0	0	531.85	532.12
20.214	561.46	560.13	556.53	553.77	549.98	546.94	0	0	531.90	532.25
21.211	562.10	560.77	557.14	554.38	550.53	547.40	0	0	532.03	532.43

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
29	7	TILE INSERT	0.111	.010	0	4.799E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	210.3	1280	29.83	30.02	30.00	.17	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0226	.998	3773	2.018E-05	7.571E-08	1.006E 06	1.618E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
43.205	2.917	41.567	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.207	562.77	561.44	557.78	554.96	551.09	547.93	0	0	532.17	532.57
23.204	563.40	562.04	558.39	555.57	551.64	548.40	0	0	532.30	532.70
24.200	564.04	562.68	559.00	556.16	552.20	548.93	0	0	532.34	532.79
25.197	564.64	563.29	559.61	556.74	552.75	549.42	0	0	532.48	532.88
26.193	565.25	563.89	560.19	557.32	553.27	549.92	0	0	532.66	532.97
27.190	565.86	564.50	560.80	557.87	553.83	550.42	0	0	532.75	533.24
28.187	566.46	565.08	561.38	558.48	554.38	550.91	0	0	532.93	533.24
29.183	567.07	565.66	561.96	559.03	554.91	551.44	0	0	533.06	533.37
30.180	567.64	566.26	562.54	559.61	555.46	551.93	0	0	533.10	533.51
31.176	568.22	566.81	563.11	560.16	555.98	552.46	0	0	533.28	533.69
32.173	568.80	567.41	563.66	560.71	556.53	552.95	0	0	533.37	533.82
33.169	569.34	567.96	564.21	561.26	557.06	553.45	0	0	533.51	533.91
34.166	569.92	568.51	564.79	561.81	557.61	554.00	0	0	533.69	534.04
35.163	570.49	569.08	565.34	562.36	558.13	554.53	0	0	533.78	534.22
36.159	571.04	569.63	565.89	562.88	558.68	555.02	0	0	533.87	534.27
37.327	571.70	570.29	566.52	563.55	559.29	555.63	0	0	534.04	534.49
38.324	572.24	570.84	567.10	564.07	559.84	556.13	0	0	534.13	534.49
39.320	572.79	571.38	567.62	564.62	560.36	556.62	0	0	534.31	534.76
40.317	573.33	571.93	568.16	565.14	560.89	557.17	0	0	534.45	534.71
41.313	573.88	572.47	568.74	565.68	561.44	557.67	0	0	534.54	534.94
42.310	574.42	572.99	569.26	566.23	561.96	558.19	0	0	534.71	535.07
43.307	574.94	573.54	569.80	566.72	562.48	558.71	0	0	534.80	535.25

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
29	7	TILE INSERT	0.111	.010	0	4.799E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	210.3	1280	29.83	30.02	30.00	.17	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0226	.998	3773	2.018E-05	7.571E-08	1.006E 06	1.618E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
43.205	2.917	41.567	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
44.303	575.48	574.08	570.32	567.30	563.00	559.20	0	0	534.94	535.25
45.300	576.00	574.60	570.84	567.82	563.52	559.73	0	0	535.07	535.43
46.296	576.54	575.14	571.38	568.34	564.04	560.25	0	0	535.21	535.61

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
29	7	TILE INSERT	0.111	.010	0	4.769E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	210.3	1280	29.83	30.02	30.00	.17	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0226	.998	3773	2.018E-05	7.571E-08	1.066E 06	1.618E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
43.205	2.917	41.567	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
9.435	1
20.708	2
30.235	3
41.291	4

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	X	REX	REK
30	7	TILE INSERT	0.111	.010	0	4.745E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	208.5	1282	39.71	39.99	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0224	.990	3776	1.597E-05	7.585E-08	9.941E 05	1.612E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
8.931	2.921	7.291	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
6.05	.117	547.14	3.276E-04	.0203	3.968E-04	.0246	4.437E-04	.0275	3.702E-04	.0230
6.63	.128	556.95	5.655E-04	.0351	6.869E-04	.0426	7.696E-04	.0477	6.401E-04	.0397
7.20	.139	586.60	1.357E-03	.0842	1.663E-03	.1032	1.875E-03	.1163	1.544E-03	.0958
7.77	.150	622.67	2.459E-03	.1525	3.052E-03	.1893	3.471E-03	.2153	2.821E-03	.1750
8.33	.161	621.90	2.434E-03	.1510	3.021E-03	.1874	3.434E-03	.2130	2.792E-03	.1732
8.89	.172	623.88	2.499E-03	.1550	3.103E-03	.1925	3.530E-03	.2190	2.867E-03	.1779
9.45	.183	619.56	2.358E-03	.1463	2.924E-03	.1814	3.322E-03	.2061	2.703E-03	.1677
10.00	.193	616.79	2.269E-03	.1408	2.811E-03	.1744	3.191E-03	.1980	2.599E-03	.1613
10.54	.204	613.21	2.155E-03	.1337	2.666E-03	.1654	3.025E-03	.1876	2.467E-03	.1530
11.08	.214	617.52	2.293E-03	.1422	2.841E-03	.1762	3.226E-03	.2001	2.627E-03	.1630
11.62	.225	617.11	2.280E-03	.1414	2.824E-03	.1752	3.207E-03	.1990	2.612E-03	.1620
12.15	.235	618.84	2.335E-03	.1449	2.895E-03	.1796	3.289E-03	.2040	2.677E-03	.1661
12.68	.245	619.87	2.369E-03	.1470	2.938E-03	.1822	3.338E-03	.2071	2.716E-03	.1685
13.20	.255	615.35	2.224E-03	.1379	2.753E-03	.1708	3.125E-03	.1938	2.547E-03	.1580
13.72	.265	624.26	2.512E-03	.1558	3.120E-03	.1936	3.550E-03	.2202	2.883E-03	.1788
14.23	.275	626.48	2.586E-03	.1604	3.215E-03	.1994	3.659E-03	.2270	2.969E-03	.1842
14.74	.285	630.35	2.716E-03	.1685	3.381E-03	.2097	3.852E-03	.2390	3.121E-03	.1936
15.24	.295	631.05	2.739E-03	.1699	3.411E-03	.2116	3.888E-03	.2412	3.148E-03	.1953
15.74	.304	623.31	2.482E-03	.1539	3.081E-03	.1911	3.505E-03	.2174	2.847E-03	.1766
16.23	.314	633.69	2.830E-03	.1755	3.527E-03	.2188	4.023E-03	.2495	3.254E-03	.2019
16.72	.323	639.24	3.021E-03	.1874	3.774E-03	.2341	4.311E-03	.2674	3.479E-03	.2158

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
30	7	TILE INSERT	0.111	.010	0	4.745E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	208.5	1282	39.71	39.99	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0224	.990	3776	1.997E-05	7.585E-08	9.941E 05	1.612E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
8.931	2.921	7.291	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.20	.333	645.33	3.237E-03	.2008	4.053E-03	.2514	4.637E-03	.2877	3.733E-03	.2315
17.68	.342	649.32	3.381E-03	.2097	4.240E-03	.2630	4.857E-03	.3013	3.903E-03	.2421
18.15	.351	645.90	3.257E-03	.2021	4.080E-03	.2531	4.669E-03	.2896	3.757E-03	.2331
18.62	.360	653.65	3.540E-03	.2196	4.448E-03	.2759	5.101E-03	.3164	4.091E-03	.2538
19.09	.369	656.39	3.643E-03	.2260	4.581E-03	.2842	5.259E-03	.3262	4.212E-03	.2613
19.55	.378	659.40	3.756E-03	.2330	4.730E-03	.2934	5.434E-03	.3371	4.347E-03	.2696
20.00	.387	661.64	3.845E-03	.2385	4.846E-03	.3006	5.571E-03	.3456	4.451E-03	.2761
20.45	.395	663.23	3.908E-03	.2424	4.930E-03	.3058	5.670E-03	.3517	4.527E-03	.2808
20.90	.404	652.68	3.505E-03	.2174	4.402E-03	.2731	5.047E-03	.3131	4.049E-03	.2512
21.34	.413	671.79	4.256E-03	.2640	5.388E-03	.3342	6.214E-03	.3855	4.941E-03	.3065
21.78	.421	677.94	4.511E-03	.2799	5.727E-03	.3552	6.618E-03	.4105	5.246E-03	.3254
22.21	.429	678.20	4.523E-03	.2806	5.742E-03	.3562	6.636E-03	.4116	5.259E-03	.3262
22.63	.438	679.45	4.576E-03	.2838	5.812E-03	.3605	6.720E-03	.4169	5.323E-03	.3302
23.06	.446	678.98	4.556E-03	.2826	5.786E-03	.3589	6.688E-03	.4149	5.299E-03	.3287
23.47	.454	666.58	4.044E-03	.2509	5.109E-03	.3169	5.882E-03	.3649	4.689E-03	.2909
23.88	.462	683.42	4.744E-03	.2943	6.037E-03	.3745	6.990E-03	.4336	5.525E-03	.3427
24.29	.470	685.19	4.820E-03	.2990	6.139E-03	.3808	7.111E-03	.4411	5.616E-03	.3484
24.69	.477	683.90	4.765E-03	.2956	6.065E-03	.3762	7.023E-03	.4356	5.550E-03	.3443
25.09	.485	683.44	4.746E-03	.2944	6.039E-03	.3746	6.992E-03	.4337	5.527E-03	.3428
25.49	.493	680.12	4.605E-03	.2857	5.851E-03	.3630	6.767E-03	.4198	5.358E-03	.3324
25.87	.500	663.48	3.921E-03	.2432	4.945E-03	.3068	5.689E-03	.3529	4.541E-03	.2817

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
30	7	TILE INSERT	0.111	.010	0	4.745E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	208.5	1282	39.71	39.99	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0224	.990	3776	1.997E-05	7.585E-08	9.941E 05	1.612E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
8.931	2.921	7.291	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.281	539.86	539.86	538.77	538.50	538.32	538.21	0	0	526.96	528.13
2.278	542.42	542.30	540.65	539.94	539.33	538.85	0	0	527.68	528.94
3.274	544.24	544.03	542.15	541.15	540.15	539.44	0	0	528.45	529.88
4.271	545.73	545.47	543.39	542.21	540.92	540.00	0	0	529.25	530.78
5.267	547.08	546.76	544.53	543.18	541.62	540.53	0	0	530.06	531.81
6.264	548.28	547.90	545.56	544.06	542.30	541.03	0	0	530.87	532.70
7.261	549.39	548.98	546.53	544.91	542.95	541.50	0	0	531.63	533.60
8.257	550.47	549.98	547.46	545.73	543.56	542.03	0	0	532.48	534.40
9.254	551.44	550.94	548.37	546.53	544.21	542.50	0	0	533.33	535.30
10.250	552.40	551.85	549.22	547.32	544.85	542.98	0	0	534.18	536.14
11.247	553.27	552.72	550.04	548.05	545.44	543.47	0	0	534.94	536.99
12.243	554.15	553.54	550.80	548.78	546.06	543.97	0	0	535.74	537.84
13.240	554.99	554.38	551.58	549.48	546.67	544.47	0	0	536.50	538.64
14.237	555.78	555.14	552.31	550.18	547.26	544.97	0	0	537.39	539.45
15.233	556.56	555.89	553.07	550.85	547.87	545.50	0	0	538.20	540.34
16.230	557.29	556.65	553.77	551.55	548.46	546.00	0	0	538.95	541.09
17.226	558.04	557.35	554.47	552.20	549.04	546.50	0	0	539.80	541.98
18.223	558.77	558.07	555.17	552.84	549.66	547.02	0	0	540.56	542.83

NASA/RI OH69
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
30	7	TILE INSERT	0.111	.010	0	4.745E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	208.5	1282	39.71	39.99	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0224	.990	3776	1.997E-05	7.585E-08	9.941E 05	1.612E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
8.931	2.921	7.291	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.937	1
9.034	2
13.140	3

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
31	7	TILE INSERT	0.111	.010	0	4.765E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	208.9	1280	39.71	39.99	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.1	.0225	.991	3773	2.004E-05	7.573E-08	9.984E 05	1.613E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.950	2.921	31.310	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
6.63	.128	569.10	4.021E-04	.0249	4.904E-04	.0304	5.508E-04	.0341	4.563E-04	.0283
7.20	.139	612.77	1.013E-03	.0628	1.253E-03	.0777	1.422E-03	.0882	1.160E-03	.0719
7.77	.150	657.19	1.752E-03	.1086	2.205E-03	.1367	2.533E-03	.1570	2.027E-03	.1256
8.33	.161	668.67	1.972E-03	.1222	2.494E-03	.1546	2.874E-03	.1782	2.288E-03	.1418
8.89	.172	672.93	2.056E-03	.1275	2.606E-03	.1615	3.007E-03	.1864	2.389E-03	.1481
9.45	.183	668.45	1.968E-03	.1220	2.488E-03	.1543	2.868E-03	.1778	2.283E-03	.1415
10.00	.193	664.40	1.888E-03	.1171	2.384E-03	.1478	2.744E-03	.1701	2.189E-03	.1357
10.54	.204	656.58	1.741E-03	.1079	2.191E-03	.1358	2.516E-03	.1559	2.014E-03	.1248
11.08	.214	662.98	1.861E-03	.1154	2.348E-03	.1455	2.701E-03	.1675	2.156E-03	.1336
11.62	.225	661.89	1.840E-03	.1141	2.320E-03	.1438	2.669E-03	.1654	2.131E-03	.1321
12.15	.235	660.10	1.806E-03	.1119	2.275E-03	.1410	2.616E-03	.1621	2.090E-03	.1296
12.68	.245	657.69	1.761E-03	.1092	2.217E-03	.1375	2.547E-03	.1579	2.038E-03	.1263
13.20	.255	652.87	1.674E-03	.1038	2.104E-03	.1304	2.413E-03	.1496	1.935E-03	.1199
13.72	.265	658.41	1.774E-03	.1100	2.234E-03	.1385	2.567E-03	.1591	2.053E-03	.1273
14.23	.275	658.77	1.781E-03	.1104	2.243E-03	.1391	2.578E-03	.1598	2.061E-03	.1278
14.74	.285	660.25	1.809E-03	.1121	2.279E-03	.1413	2.620E-03	.1624	2.094E-03	.1298
15.24	.295	658.77	1.781E-03	.1104	2.243E-03	.1391	2.578E-03	.1598	2.061E-03	.1278
15.74	.304	651.53	1.651E-03	.1023	2.073E-03	.1285	2.377E-03	.1473	1.907E-03	.1182
16.23	.314	660.56	1.815E-03	.1125	2.287E-03	.1418	2.630E-03	.1630	2.101E-03	.1302
16.72	.323	662.04	1.843E-03	.1143	2.324E-03	.1441	2.674E-03	.1657	2.135E-03	.1323
17.20	.333	664.87	1.898E-03	.1176	2.396E-03	.1486	2.759E-03	.1710	2.200E-03	.1364

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
31	7	TILE INSERT	0.111	.010	0	4.765E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	208.9	1280	39.71	39.99	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.1	.0225	.991	3773	2.004E-05	7.573E-08	9.984E 05	1.613E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.950	2.921	31.310	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.68	.342	667.30	1.945E-03	.1206	2.459E-03	.1524	2.833E-03	.1756	2.256E-03	.1399
18.15	.351	657.88	1.765E-03	.1094	2.222E-03	.1377	2.552E-03	.1582	2.042E-03	.1266
18.62	.360	667.76	1.954E-03	.1212	2.471E-03	.1532	2.847E-03	.1765	2.267E-03	.1405
19.09	.369	668.84	1.975E-03	.1225	2.499E-03	.1549	2.880E-03	.1785	2.292E-03	.1421
19.55	.378	670.30	2.004E-03	.1243	2.537E-03	.1573	2.926E-03	.1814	2.327E-03	.1442
20.00	.387	669.71	1.993E-03	.1235	2.522E-03	.1563	2.907E-03	.1802	2.313E-03	.1434
20.45	.395	664.99	1.900E-03	.1178	2.400E-03	.1488	2.763E-03	.1713	2.203E-03	.1365
20.90	.404	655.10	1.714E-03	.1063	2.156E-03	.1337	2.475E-03	.1534	1.982E-03	.1229
21.34	.413	669.10	1.981E-03	.1228	2.506E-03	.1553	2.888E-03	.1791	2.298E-03	.1425
21.78	.421	672.98	2.058E-03	.1276	2.608E-03	.1616	3.010E-03	.1866	2.390E-03	.1482
22.21	.429	673.09	2.060E-03	.1277	2.611E-03	.1618	3.013E-03	.1868	2.393E-03	.1483
22.63	.438	672.59	2.050E-03	.1271	2.597E-03	.1610	2.997E-03	.1858	2.381E-03	.1476
23.06	.446	670.53	2.009E-03	.1246	2.543E-03	.1577	2.933E-03	.1818	2.332E-03	.1446
23.47	.454	658.85	1.783E-03	.1105	2.245E-03	.1392	2.580E-03	.1600	2.063E-03	.1279
23.88	.462	670.25	2.004E-03	.1242	2.536E-03	.1572	2.924E-03	.1813	2.326E-03	.1442
24.29	.470	673.34	2.065E-03	.1280	2.617E-03	.1623	3.021E-03	.1873	2.399E-03	.1487
24.69	.477	672.20	2.042E-03	.1266	2.587E-03	.1604	2.985E-03	.1851	2.372E-03	.1470
25.09	.485	673.57	2.070E-03	.1283	2.623E-03	.1626	3.029E-03	.1877	2.405E-03	.1491
25.49	.493	673.18	2.062E-03	.1278	2.613E-03	.1620	3.016E-03	.1870	2.395E-03	.1485
25.87	.500	657.24	1.754E-03	.1087	2.207E-03	.1368	2.535E-03	.1572	2.029E-03	.1258

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
31	7	TILE INSERT	0.111	.010	0	4.765E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	208.9	1280	39.71	39.99	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.1	.0225	.991	3773	2.004E-05	7.573E-08	9.984E 05	1.613E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.950	2.921	31.310	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.281	539.92	539.92	538.80	538.50	538.38	538.21	0	0	530.82	531.81
2.278	542.48	542.33	540.68	539.94	539.33	538.85	0	0	531.31	532.25
3.274	544.30	544.09	542.15	541.15	540.15	539.44	0	0	531.81	532.75
4.271	545.79	545.50	543.42	542.21	540.92	540.00	0	0	532.39	533.24
5.267	547.14	546.79	544.56	543.18	541.62	540.53	0	0	532.88	533.78
6.264	548.34	547.93	545.59	544.09	542.30	541.03	0	0	533.42	534.22
7.261	549.45	549.01	546.55	544.94	542.95	541.53	0	0	533.87	534.80
8.257	550.47	550.01	547.46	545.76	543.59	542.01	0	0	534.45	535.34
9.254	551.50	550.97	548.37	546.55	544.24	542.50	0	0	534.94	535.79
10.250	552.43	551.85	549.19	547.32	544.85	543.00	0	0	535.34	536.32
11.247	553.33	552.72	550.01	548.05	545.44	543.50	0	0	535.83	536.81
12.243	554.18	553.57	550.80	548.78	546.06	544.00	0	0	536.32	537.26
13.240	554.99	554.35	551.55	549.48	546.67	544.47	0	0	536.81	537.88
14.237	555.81	555.14	552.31	550.21	547.26	545.00	0	0	537.39	538.29
15.233	556.56	555.89	553.04	550.88	547.87	545.50	0	0	537.80	538.82
16.230	557.32	556.65	553.74	551.55	548.46	546.00	0	0	538.33	539.27
17.226	558.07	557.35	554.44	552.20	549.04	546.53	0	0	538.82	539.80
18.223	558.77	558.07	555.14	552.84	549.63	546.99	0	0	539.31	540.25
19.219	559.49	558.77	555.81	553.48	550.21	547.55	0	0	539.80	540.83
20.216	560.16	559.41	556.45	554.12	550.80	548.05	0	0	540.25	541.18
21.213	560.83	560.10	557.12	554.76	551.38	548.57	0	0	540.74	541.76

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
31	7	TILE INSERT	0.111	.010	0	4.765E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	208.9	1280	39.71	39.99	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.1	.0225	.991	3773	2.004E-05	7.573E-08	9.984E 05	1.613E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
32.950	2.921	31.310	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.209	561.49	560.74	557.75	555.37	551.96	549.10	0	0	541.18	542.16
23.206	562.16	561.41	558.39	555.98	552.55	549.63	0	0	541.72	542.70
24.202	562.80	562.04	559.00	556.59	553.10	550.15	0	0	542.16	543.18
25.199	563.43	562.68	559.64	557.20	553.68	550.68	0	0	542.65	543.67
26.195	564.04	563.29	560.25	557.78	554.27	551.23	0	0	543.23	544.12
27.192	564.67	563.89	560.86	558.36	554.82	551.79	0	0	543.63	544.61
28.189	565.28	564.50	561.46	558.97	555.37	552.31	0	0	544.16	545.05
29.185	565.89	565.11	562.04	559.55	555.95	552.87	0	0	544.56	545.63
30.182	566.49	565.71	562.65	560.16	556.53	553.39	0	0	545.05	546.07
31.178	567.07	566.29	563.23	560.74	557.09	553.92	0	0	545.54	546.52
32.175	567.70	566.90	563.81	561.32	557.64	554.47	0	0	545.98	546.96
33.171	568.28	567.47	564.39	561.87	558.22	554.99	0	0	546.52	547.45
34.168	568.85	568.08	564.96	562.45	558.77	555.55	0	0	546.96	548.02
35.165	569.43	568.45	565.54	563.00	559.32	556.07	0	0	547.40	548.38
36.161	570.03	569.23	566.12	563.58	559.87	556.62	0	0	547.89	548.87
37.158	570.58	569.80	566.69	564.15	560.45	557.17	0	0	548.34	549.31
38.154	571.15	570.35	567.27	564.70	561.00	557.70	0	0	548.82	549.84

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
31	7	TILE INSERT	0.111	.010	0	4.765E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	208.9	1280	39.71	39.99	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.1	.0225	.991	3773	2.004E-05	7.573E-08	9.984E 05	1.613E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.950	2.921	31.310	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
8.659	1
15.023	2
22.913	3
31.315	4

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

11/18/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
32	7	TILE INSERT	0.111	.010	0	1.419E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	670.2	1331	29.41	30.01	30.00	.59	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.6	.0692	3.093	3849	6.009E-05	7.780E-08	2.972E 06	2.868E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
19.384	2.994	17.703	1000

X (IN)	X/L	TW (DEG R)	HI(T0)	HI(T0)/HREF	HI(.9T0)	HI(.9T0)/HREF	HI(.85T0)	HI(.85T0)/HREF	HI(.912T0)	HI(.912T0)/HREF
4.61	.089	601.65	1.049E-03	.0366	1.279E-03	.0446	1.435E-03	.0500	1.245E-03	.0434
5.10	.099	678.73	2.673E-03	.0932	3.327E-03	.1160	3.791E-03	.1322	3.229E-03	.1126
5.58	.108	598.72	9.968E-04	.0348	1.214E-03	.0423	1.362E-03	.0475	1.182E-03	.0412
7.49	.145	597.71	9.791E-04	.0341	1.192E-03	.0416	1.337E-03	.0466	1.161E-03	.0405
7.96	.154	658.07	2.180E-03	.0760	2.696E-03	.0940	3.059E-03	.1066	2.619E-03	.0913
8.43	.163	662.02	2.270E-03	.0792	2.811E-03	.0980	3.192E-03	.1113	2.730E-03	.0952
8.90	.172	572.13	2.512E-03	.0876	3.120E-03	.1088	3.550E-03	.1238	3.029E-03	.1056
9.36	.181	662.89	2.291E-03	.0799	2.838E-03	.0989	3.223E-03	.1124	2.756E-03	.0961
9.82	.190	663.33	2.349E-03	.0819	2.912E-03	.1015	3.308E-03	.1153	2.827E-03	.0986
10.28	.199	658.89	2.154E-03	.0751	2.663E-03	.0928	3.020E-03	.1053	2.587E-03	.0902
10.74	.208	643.69	1.975E-03	.0688	2.436E-03	.0849	2.758E-03	.0962	2.367E-03	.0825
11.19	.216	661.77	2.265E-03	.0790	2.804E-03	.0978	3.184E-03	.1110	2.724E-03	.0950
11.65	.225	665.83	2.361E-03	.0823	2.926E-03	.1020	3.326E-03	.1159	2.842E-03	.0991
12.10	.234	663.50	2.306E-03	.0804	2.857E-03	.0996	3.245E-03	.1131	2.774E-03	.0967
12.54	.242	664.24	2.323E-03	.0810	2.879E-03	.1004	3.270E-03	.1140	2.796E-03	.0975
12.99	.251	666.63	2.238E-03	.0780	2.771E-03	.0966	3.145E-03	.1096	2.691E-03	.0938
13.43	.260	667.84	2.409E-03	.0840	2.989E-03	.1042	3.398E-03	.1185	2.902E-03	.1012
13.87	.268	675.04	2.583E-03	.0901	3.211E-03	.1120	3.657E-03	.1275	3.117E-03	.1087
14.30	.277	678.73	2.674E-03	.0932	3.328E-03	.1160	3.793E-03	.1322	3.230E-03	.1126
14.74	.285	680.21	2.711E-03	.0945	3.375E-03	.1177	3.848E-03	.1342	3.276E-03	.1142
15.17	.293	687.14	2.885E-03	.1006	3.600E-03	.1255	4.111E-03	.1433	3.492E-03	.1218

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
32	7	TILE INSERT	0.111	.010	0	1.419E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	670.2	1331	29.41	30.01	30.00	.59	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.6	.0692	3.093	3849	6.009E-05	7.780E-08	2.972E 06	2.868E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
19.384	2.994	17.703	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.60	.302	677.00	2.632E-03	.0918	3.274E-03	.1141	3.729E-03	.1300	3.177E-03	.1108
15.63	.310	696.09	3.114E-03	.1086	3.897E-03	.1359	4.459E-03	.1555	3.779E-03	.1317
16.45	.318	702.57	3.284E-03	.1145	4.119E-03	.1436	4.721E-03	.1646	3.992E-03	.1392
16.87	.326	711.57	3.524E-03	.1229	4.434E-03	.1546	5.094E-03	.1776	4.296E-03	.1498
17.29	.334	718.66	3.718E-03	.1296	4.690E-03	.1635	5.398E-03	.1882	4.542E-03	.1584
17.71	.342	728.15	3.983E-03	.1389	5.043E-03	.1758	5.819E-03	.2029	4.881E-03	.1702
18.12	.350	726.02	3.756E-03	.1309	4.740E-03	.1653	5.458E-03	.1903	4.590E-03	.1600
18.54	.358	737.24	4.245E-03	.1480	5.392E-03	.1880	6.239E-03	.2175	5.217E-03	.1819
18.95	.366	757.18	4.628E-03	.1614	5.910E-03	.2061	6.866E-03	.2394	5.713E-03	.1992
19.35	.374	760.95	4.960E-03	.1729	6.363E-03	.2218	7.417E-03	.2586	6.146E-03	.2143
19.76	.382	766.26	5.126E-03	.1788	6.594E-03	.2299	7.700E-03	.2685	6.367E-03	.2220
20.16	.390	771.85	5.308E-03	.1851	6.842E-03	.2385	8.006E-03	.2791	6.604E-03	.2302
20.56	.397	769.16	5.221E-03	.1820	6.722E-03	.2344	7.858E-03	.2740	6.489E-03	.2262
20.96	.405	776.19	5.450E-03	.1900	7.039E-03	.2454	8.250E-03	.2876	6.792E-03	.2368
21.35	.413	796.42	6.145E-03	.2142	8.014E-03	.2794	9.466E-03	.3300	7.721E-03	.2692
21.75	.420	807.26	6.541E-03	.2281	8.579E-03	.2991	1.018E-02	.3549	8.258E-03	.2879
22.14	.428	814.22	6.801E-03	.2371	8.954E-03	.3122	1.066E-02	.3715	8.613E-03	.3003
22.52	.435	820.59	7.042E-03	.2455	9.304E-03	.3244	1.110E-02	.3872	8.944E-03	.3118
22.91	.443	824.72	7.200E-03	.2510	9.535E-03	.3324	1.140E-02	.3976	9.163E-03	.3195
23.29	.450	808.52	6.589E-03	.2297	8.648E-03	.3015	1.027E-02	.3579	8.323E-03	.2902
23.67	.458	833.23	7.531E-03	.2625	1.002E-02	.3494	1.204E-02	.4197	9.625E-03	.3356
24.05	.465	842.62	7.903E-03	.2755	1.058E-02	.3689	1.277E-02	.4452	1.015E-02	.3539

L = 4.311 ft

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
32	7	TILE INSERT	0.111	.010	0	1.419E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	670.2	1331	29.41	30.01	30.00	.59	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.6	.0692	3.093	3849	6.009E-05	7.780E-08	2.972E 06	2.868E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
19.384	2.994	17.703	1000

X (IN)	X/L	TW (DEG R)	HI(TO)	HI(TO)/HREF	HI(0.9TO)	HI.9TO)/HREF	HI.85TO)	HI.85TO)/HREF	HI .912TO)	HI .912TO)/HREF
24.42	.472	843.45	7.937E-03	.2767	1.063E-02	.3706	1.284E-02	.4475	1.020E-02	.3555
24.80	.479	844.74	7.989E-03	.2785	1.071E-02	.3734	1.294E-02	.4512	1.027E-02	.3581
25.17	.486	846.93	8.077E-03	.2816	1.084E-02	.3780	1.312E-02	.4574	1.040E-02	.3625
25.53	.494	843.05	7.921E-03	.2762	1.061E-02	.3698	1.281E-02	.4464	1.018E-02	.3548
25.90	.501	800.47	6.292E-03	.2194	8.223E-03	.2867	9.729E-03	.3392	7.920E-03	.2761

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
32	7	TILE INSERT	0.111	.010	0	1.419E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	670.2	1331	29.41	30.01	30.00	.59	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.6	.0692	3.093	3849	6.009E-05	7.780E-08	2.972E 06	2.868E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.384	2.994	17.703	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.313	544.09	543.32	540.73	539.76	539.06	538.76	0	0	529.84	530.96
2.310	548.72	547.60	543.91	542.12	540.41	539.56	0	0	530.87	532.34
3.306	552.19	550.85	546.58	544.14	541.71	540.38	0	0	532.08	533.78
4.303	555.10	553.56	548.89	546.02	542.94	541.24	0	0	533.24	535.16
5.300	557.66	555.98	550.97	547.75	544.12	542.00	0	0	534.49	536.59
6.296	559.98	558.18	552.92	549.42	545.26	542.79	0	0	535.65	537.80
7.293	562.13	560.21	554.73	550.99	546.40	543.62	0	0	536.95	539.13
8.289	564.12	562.13	556.47	552.51	547.52	544.41	0	0	538.06	540.34
9.286	565.97	563.92	558.10	553.94	548.66	545.23	0	0	539.27	541.63
10.282	567.78	565.62	559.69	555.37	549.74	546.05	0	0	540.51	542.83
11.279	569.45	567.24	561.23	556.73	550.85	546.90	0	0	541.67	544.07
12.276	571.06	568.82	562.68	558.07	551.93	547.75	0	0	542.83	545.23
13.272	572.61	570.34	564.09	559.37	553.01	548.60	0	0	543.98	546.47
14.269	574.07	571.75	565.48	560.65	554.09	549.48	0	0	545.14	547.71
15.265	575.51	573.19	566.80	561.89	555.16	550.32	0	0	546.34	548.87
16.262	576.91	574.53	568.13	563.11	556.21	551.20	0	0	547.49	550.06
17.258	578.25	575.85	569.40	564.32	557.28	552.13	0	0	548.65	551.22
18.255	579.56	577.11	570.63	565.16	558.33	552.98	0	0	549.75	552.23
19.252	580.85	578.39	571.87	566.66	559.40	553.94	0	0	550.95	553.47
20.248	582.10	579.65	573.07	567.84	560.45	554.84	0	0	552.10	554.71
21.245	583.33	580.85	574.25	568.96	561.49	555.77	0	0	553.21	555.77

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
32	7	TILE INSERT	0.111	.010	0	1.419E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	670.2	1331	29.41	30.01	30.00	.59	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.6	.0692	3.093	3849	6.009E-05	7.780E-08	2.972E 06	2.868E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
19.384	2.994	17.703	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.241	584.52	582.04	575.42	570.09	562.53	556.70	0	0	554.40	556.92
23.238	585.71	583.21	576.54	571.21	563.57	557.63	0	0	555.50	558.11

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
32	7	TILE INSERT	0.111	.010	0	1.419E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	670.2	1331	29.41	30.01	30.00	.59	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.6	.0692	3.093	3849	6.009E-05	7.780E-08	2.972E 06	2.868E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.384	2.994	17.703	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
6.365	1
13.446	2
17.857	3

NASA/RI OH60
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
33	7	TILE INSERT	0.111	.010	0	1.430E-06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	669.3	1322	39.10	40.01	30.00	-9.10	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0691	3.089	3837	6.038E-05	7.732E-08	2.996E-06	2.863E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.118	3.278	7.278	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
6.63	.128	563.71	6.540E-04	.0228	7.920E-04	.0277	8.855E-04	.0309	7.389E-04	.0258
7.20	.139	572.24	8.648E-04	.0302	1.050E-03	.0367	1.176E-03	.0411	9.785E-04	.0342
7.77	.150	631.33	2.543E-03	.0888	3.145E-03	.1098	3.567E-03	.1246	2.910E-03	.1016
8.33	.161	682.46	4.362E-03	.1523	5.498E-03	.1920	6.321E-03	.2208	5.050E-03	.1764
8.89	.172	717.79	5.827E-03	.2035	7.458E-03	.2605	8.672E-03	.3029	6.809E-03	.2378
9.45	.183	729.66	6.352E-03	.2218	8.176E-03	.2856	9.548E-03	.3334	7.448E-03	.2601
10.00	.193	744.30	7.026E-03	.2454	9.110E-03	.3182	1.070E-02	.3736	8.274E-03	.2890
10.54	.204	757.35	7.653E-03	.2673	9.991E-03	.3490	1.179E-02	.4119	9.049E-03	.3160
11.08	.214	765.17	8.041E-03	.2808	1.054E-02	.3683	1.249E-02	.4361	9.533E-03	.3330
11.62	.225	785.19	9.086E-03	.3173	1.205E-02	.4210	1.441E-02	.5032	1.085E-02	.3788
12.15	.235	794.56	9.604E-03	.3354	1.281E-02	.4476	1.539E-02	.5374	1.150E-02	.4018
12.68	.245	798.44	9.824E-03	.3431	1.314E-02	.4590	1.581E-02	.5522	1.174E-02	.4116
13.20	.255	794.65	9.609E-03	.3356	1.282E-02	.4479	1.540E-02	.5378	1.151E-02	.4020
13.72	.265	806.26	1.028E-02	.3590	1.382E-02	.4827	1.670E-02	.5832	1.237E-02	.4320
14.23	.275	811.91	1.062E-02	.3707	1.433E-02	.5004	1.736E-02	.6064	1.280E-02	.4471
14.74	.285	812.35	1.064E-02	.3717	1.437E-02	.5018	1.742E-02	.6083	1.284E-02	.4483
15.24	.295	818.83	1.103E-02	.3852	1.496E-02	.5224	1.820E-02	.6356	1.334E-02	.4658
15.74	.304	809.68	1.048E-02	.3662	1.413E-02	.4935	1.710E-02	.5973	1.263E-02	.4412
16.23	.314	812.23	1.064E-02	.3715	1.436E-02	.5015	1.740E-02	.6078	1.283E-02	.4480
16.72	.323	820.95	1.116E-02	.3897	1.516E-02	.5293	1.846E-02	.6448	1.351E-02	.4717
17.20	.333	822.52	1.125E-02	.3930	1.530E-02	.5345	1.866E-02	.6517	1.363E-02	.4761

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
33	7	TILE INSERT	0.111	.010	0	1.430E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	669.3	1322	39.10	40.01	30.00	-9.10	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0691	3.089	3837	6.038E-05	7.732E-08	2.996E 06	2.863E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.118	3.278	7.278	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.68	.342	822.15	1.123E-02	.3923	1.527E-02	.5333	1.861E-02	.6501	1.360E-02	.4751
18.15	.351	822.22	1.124E-02	.3924	1.528E-02	.5335	1.862E-02	.6505	1.361E-02	.4753
18.62	.360	812.39	1.065E-02	.3719	1.438E-02	.5021	1.743E-02	.6086	1.284E-02	.4486
19.09	.369	824.60	1.138E-02	.3975	1.550E-02	.5414	1.892E-02	.6609	1.380E-02	.4819
19.55	.378	824.38	1.137E-02	.3971	1.548E-02	.5407	1.890E-02	.6600	1.378E-02	.4813
20.00	.387	825.00	1.141E-02	.3984	1.554E-02	.5427	1.898E-02	.6628	1.383E-02	.4831
20.45	.395	823.15	1.130E-02	.3945	1.537E-02	.5367	1.874E-02	.6547	1.369E-02	.4780
20.90	.404	807.37	1.035E-02	.3615	1.393E-02	.4865	1.684E-02	.5881	1.246E-02	.4352
21.34	.413	822.11	1.123E-02	.3923	1.527E-02	.5333	1.862E-02	.6502	1.360E-02	.4751
21.78	.421	830.03	1.172E-02	.4093	1.602E-02	.5596	1.963E-02	.6856	1.424E-02	.4974
22.21	.429	829.93	1.171E-02	.4091	1.601E-02	.5593	1.962E-02	.6851	1.423E-02	.4971
22.63	.438	830.57	1.175E-02	.4105	1.608E-02	.5615	1.970E-02	.6881	1.429E-02	.4990
23.06	.446	831.35	1.180E-02	.4122	1.615E-02	.5642	1.980E-02	.6917	1.435E-02	.5012
23.47	.454	812.43	1.065E-02	.3721	1.439E-02	.5024	1.744E-02	.6091	1.285E-02	.4489
23.88	.462	827.92	1.159E-02	.4048	1.582E-02	.5526	1.936E-02	.6761	1.407E-02	.4915
24.29	.470	833.53	1.194E-02	.4170	1.637E-02	.5717	2.010E-02	.7019	1.453E-02	.5075
24.69	.477	828.28	1.161E-02	.4056	1.586E-02	.5539	1.941E-02	.6778	1.410E-02	.4926
25.09	.485	825.44	1.144E-02	.3996	1.559E-02	.5445	1.904E-02	.6651	1.388E-02	.4846
25.49	.493	823.49	1.132E-02	.3954	1.541E-02	.5381	1.880E-02	.6565	1.372E-02	.4792
25.87	.500	813.49	1.072E-02	.3744	1.449E-02	.5059	1.757E-02	.6137	1.294E-02	.4518

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
33	7	TILE INSERT	0.111	.010	0	1.430E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	669.3	1322	39.10	40.01	30.00	-9.10	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0691	3.089	3837	6.038E-05	7.732E-08	2.996E 06	2.863E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.118	3.278	7.278	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.438	545.11	545.00	543.03	542.29	541.82	541.76	0	0	534.40	538.73
2.434	549.48	549.13	546.26	544.76	543.32	542.68	0	0	537.57	543.63
3.431	552.72	552.22	548.89	546.93	544.79	543.68	0	0	540.56	547.36
4.427	555.42	554.81	551.17	548.83	546.14	544.64	0	0	543.27	550.64
5.424	557.87	557.11	553.21	550.59	547.40	545.58	0	0	546.03	553.60
6.420	560.04	559.23	555.10	552.22	548.66	546.49	0	0	548.73	556.52
7.417	562.07	561.17	556.88	553.77	549.83	547.40	0	0	551.26	559.30
8.414	563.98	562.99	558.56	555.28	551.02	548.28	0	0	553.78	561.90
9.410	565.77	564.64	560.10	556.73	552.16	549.18	0	0	556.34	564.50
10.407	567.50	566.40	561.72	558.13	553.30	550.09	0	0	558.86	567.05
11.403	569.14	567.98	563.22	559.49	554.43	551.02	0	0	561.37	569.55
12.400	570.69	569.51	564.64	560.85	555.54	551.90	0	0	563.88	572.09
13.396	572.21	570.98	566.03	562.13	556.67	552.83	0	0	566.34	574.81
14.393	573.67	572.41	567.38	563.40	557.75	553.77	0	0	568.76	577.21

L = 4.311

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
33	7	TILE INSERT	0.111	.010	0	1.430E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	669.3	1322	39.10	40.01	30.00	-9.10	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0691	3.089	3837	6.038E-05	7.732E-08	2.996E 06	2.863E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.118	3.278	7.278	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.394	1
6.384	2
8.894	3

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
34	7	TILE INSERT	0.111	.010	.010	1.187E 06	2.072E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.1	1323	29.50	29.50	30.00	.50	.50	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0574	2.566	3838	5.013E-05	7.738E-08	2.487E 06	2.610E-02	7171

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.291	3.589	17.277	100

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.911TO)	H(.911TO)/HREF

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
34	7	TILE INSERT	0.111	.010	.010	1.187E 06	2.072E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	550.1	1323	29.50	29.50	30.00	.50	.50	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0574	2.566	3838	5.013E-05	7.738E-08	2.487E 06	2.610E-02	7171

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.291	3.589	17.277	100

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.574	542.27	540.56	538.17	537.05	536.49	536.34	0	0	527.28	528.31
2.571	546.17	544.38	541.06	539.18	537.70	536.99	0	0	528.40	529.52
3.567	549.22	547.31	543.47	541.09	538.88	537.73	0	0	529.39	530.51
4.564	551.76	549.77	545.59	542.80	540.00	538.47	0	0	530.19	531.49
5.560	554.06	551.96	547.49	544.38	541.06	539.24	0	0	531.14	532.61
6.557	556.13	553.97	549.28	545.91	542.15	539.94	0	0	532.21	533.69
7.553	558.04	555.81	550.91	547.34	543.15	540.65	0	0	533.33	534.80
8.550	559.87	557.55	552.49	548.75	544.21	541.39	0	0	534.31	535.92
9.547	561.58	559.17	554.00	550.06	545.21	542.12	0	0	535.25	536.86
10.543	563.14	560.71	555.46	551.38	546.23	542.86	0	0	536.19	537.75
11.540	564.64	562.22	556.82	552.63	547.23	543.62	0	0	537.17	538.82
12.536	566.12	563.63	558.16	553.86	548.19	544.38	0	0	538.20	539.94
13.533	567.53	565.02	559.44	555.05	549.22	545.15	0	0	539.31	541.00
14.529	568.85	566.32	560.71	556.21	550.21	545.94	0	0	540.20	541.98
15.526	570.15	567.59	561.93	557.38	551.17	546.73	0	0	541.05	542.83
16.161	570.95	568.39	562.68	558.07	551.79	547.26	0	0	541.81	543.45
16.523	571.44	568.85	563.14	558.48	552.14	547.55	0	0	541.94	543.81
17.519	572.67	570.03	564.27	559.58	553.10	548.37	0	0	543.05	544.83
18.516	573.85	571.21	565.42	560.68	554.06	549.19	0	0	544.07	545.85

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
34	7	TILE INSERT	0.111	.010	.010	1.187E 06	2.072E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.1	1323	29.50	29.50	30.00	.50	.50	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0574	2.566	3838	5.013E-05	7.738E-08	2.487E 06	2.610E-02	7171

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
19.291	3.589	17.277	100

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
10.200	1
16.779	2

NASA/HI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSON . UNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
35	7	TILE INSERT	0.111	.010	.010	1.072E 06	1.872E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.1	1308	29.59	30.04	30.00	.41	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0512	2.283	3816	4.514E-05	7.666E-08	2.247E 06	2.457E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.294	3.611	19.267	100

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
7.20	.139	665.53	2.368E-03	.0964	2.974E-03	.1210	3.411E-03	.1388	2.882E-03	.1173
7.60	.147	724.18	3.972E-03	.1616	5.129E-03	.2087	6.003E-03	.2443	4.949E-03	.2014
8.00	.155	734.8[illegible]	4.278E-03	.1741	5.554E-03	.2260	6.528E-03	.2657	5.355E-03	.2179
8.39	.162	764.50	4.936E-03	.2009	6.486E-03	.2639	7.694E-03	.3131	6.241E-03	.2540
8.78	.170	764.84	5.074E-03	.2065	6.684E-03	.2720	7.944E-03	.3233	6.429E-03	.2616
9.17	.177	769.47	5.223E-03	.2126	6.899E-03	.2809	8.217E-03	.3344	6.633E-03	.2699
9.56	.185	775.46	5.420E-03	.2205	7.184E-03	.2924	8.581E-03	.3492	6.903E-03	.2809
9.95	.192	779.91	5.569E-03	.2266	7.402E-03	.3012	8.861E-03	.3606	7.110E-03	.2893
10.33	.200	774.69	5.361E-03	.2182	7.099E-03	.2889	8.473E-03	.3448	6.823E-03	.2777
10.71	.207	795.17	6.099E-03	.2482	8.188E-03	.3332	9.879E-03	.4020	7.852E-03	.3195
11.10	.214	798.26	6.211E-03	.2528	8.355E-03	.3400	1.010E-02	.4110	8.010E-03	.3260
11.48	.222	798.15	6.207E-03	.2526	8.349E-03	.3398	1.009E-02	.4106	8.004E-03	.3257
11.85	.229	798.72	6.228E-03	.2534	8.380E-03	.3410	1.013E-02	.4123	8.033E-03	.3269
12.23	.236	798.74	6.229E-03	.2535	8.382E-03	.3411	1.013E-02	.4124	8.035E-03	.3270
12.60	.244	784.38	5.721E-03	.2328	7.626E-03	.3104	9.150E-03	.3724	7.322E-03	.2980
12.98	.251	798.72	6.228E-03	.2535	8.381E-03	.3411	1.013E-02	.4123	8.034E-03	.3269
13.35	.258	805.55	6.481E-03	.2637	8.762E-03	.3566	1.063E-02	.4327	8.393E-03	.3416
13.72	.265	807.44	6.552E-03	.2667	8.871E-03	.3610	1.076E-02	.4386	8.495E-03	.3457
14.08	.272	805.35	6.587E-03	.2681	8.923E-03	.3631	1.085E-02	.4414	8.544E-03	.3477
14.45	.279	811.82	6.718E-03	.2734	9.124E-03	.3713	1.111E-02	.4522	8.733E-03	.3554
14.81	.286	811.36	6.701E-03	.2727	9.097E-03	.3702	1.108E-02	.4508	8.708E-03	.3544

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
35	7	TILE INSERT	0.111	.010	.010	1.072E 06	1.872E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.1	1308	29.59	30.04	30.00	.41	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0512	2.283	3816	4.514E-05	7.666E-08	2.247E 06	2.457E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.294	3.611	19.267	100

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.17	.293	795.14	6.100E-03	.2482	8.188E-03	.3332	9.879E-03	.4020	7.852E-03	.3195
15.53	.300	801.71	6.339E-03	.2580	8.547E-03	.3478	1.035E-02	.4212	8.191E-03	.3333
15.89	.307	813.06	6.766E-03	.2753	9.196E-03	.3742	1.121E-02	.4562	8.801E-03	.3582
16.25	.314	814.77	6.830E-03	.2780	9.296E-03	.3783	1.134E-02	.4616	8.894E-03	.3620
16.60	.321	814.23	6.810E-03	.2771	9.264E-03	.3770	1.130E-02	.4599	8.865E-03	.3608
16.96	.328	815.54	6.858E-03	.2791	9.339E-03	.3801	1.140E-02	.4640	8.935E-03	.3636
17.31	.335	815.42	6.856E-03	.2790	9.334E-03	.3799	1.139E-02	.4637	8.931E-03	.3634
17.66	.341	812.25	6.735E-03	.2741	9.150E-03	.3723	1.115E-02	.4537	8.757E-03	.3564
18.01	.348	790.76	5.945E-03	.2419	7.957E-03	.3238	9.578E-03	.3898	7.634E-03	.3107
18.35	.355	811.57	6.710E-03	.2731	9.111E-03	.3708	1.110E-02	.4515	8.721E-03	.3549
18.70	.361	813.34	6.777E-03	.2758	9.214E-03	.3749	1.123E-02	.4571	8.817E-03	.3588
19.04	.368	813.08	6.767E-03	.2754	9.199E-03	.3743	1.121E-02	.4563	8.803E-03	.3583
19.38	.375	814.18	6.809E-03	.2771	9.263E-03	.3769	1.130E-02	.4598	8.863E-03	.3607
19.72	.381	810.84	6.683E-03	.2720	9.069E-03	.3691	1.104E-02	.4493	8.682E-03	.3533
20.06	.388	809.16	6.620E-03	.2694	8.973E-03	.3651	1.091E-02	.4441	8.591E-03	.3496
20.39	.394	802.59	6.373E-03	.2593	8.598E-03	.3499	1.042E-02	.4239	8.238E-03	.3353
20.73	.401	768.77	5.076E-03	.2391	7.854E-03	.3196	9.445E-03	.3844	7.537E-03	.3067
21.06	.407	814.48	6.821E-03	.2776	9.281E-03	.3777	1.132E-02	.4608	8.881E-03	.3614
21.39	.413	817.90	6.952E-03	.2829	9.483E-03	.3859	1.159E-02	.4718	9.070E-03	.3691
21.72	.420	818.81	6.987E-03	.2843	9.537E-03	.3881	1.167E-02	.4747	9.121E-03	.3712
22.05	.426	818.02	6.956E-03	.2831	9.490E-03	.3862	1.160E-02	.4722	9.076E-03	.3694
22.37	.432	818.31	6.967E-03	.2835	9.507E-03	.3869	1.163E-02	.4731	9.093E-03	.3700

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
35	7	TILE INSERT	0.111	.010	.010	1.072E 06	1.872E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.1	1308	29.59	30.04	30.00	.41	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0512	2.283	3816	4.514E-05	7.666E-08	2.247E 06	2.457E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.294	3.611	19.267	100

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
22.89	.439	817.71	6.944E-03	.2826	9.472E-03	.3854	1.158E-02	.4712	9.059E-03	.3687
23.02	.445	815.19	6.849E-03	.2787	9.323E-03	.3794	1.138E-02	.4631	8.920E-03	.3630
23.34	.451	783.09	5.680E-03	.2312	7.565E-03	.3079	9.071E-03	.3691	7.264E-03	.2956
23.65	.457	813.01	6.766E-03	.2753	9.196E-03	.3742	1.121E-02	.4562	8.801E-03	.3582
23.97	.463	818.67	6.992E-03	.2841	9.529E-03	.3878	1.166E-02	.4743	9.114E-03	.3709
24.29	.469	818.01	6.957E-03	.2831	9.490E-03	.3862	1.160E-02	.4722	9.077E-03	.3694
24.60	.475	813.76	6.795E-03	.2765	9.241E-03	.3761	1.127E-02	.4586	8.843E-03	.3599
24.91	.482	811.58	6.713E-03	.2732	9.114E-03	.3709	1.110E-02	.4517	8.724E-03	.3550
25.22	.487	810.83	6.685E-03	.2720	9.071E-03	.3692	1.104E-02	.4494	8.684E-03	.3534
25.53	.493	808.55	6.598E-03	.2685	8.940E-03	.3638	1.087E-02	.4423	8.560E-03	.3484
25.83	.499	790.37	5.933E-03	.2415	7.940E-03	.3231	9.556E-03	.3889	7.618E-03	.3100
26.14	.505	750.00	4.616E-03	.1879	6.030E-03	.2454	7.120E-03	.2897	5.807E-03	.2363

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
35	7	TILE INSERT	0.111	.010	.010	1.072E 06	1.872E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.1	1308	29.59	30.04	30.00	.41	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0512	2.283	3816	4.514E-05	7.666E-08	2.247E 06	2.457E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.294	3.611	19.267	100

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.584	549.88	548.36	546.17	545.17	544.67	544.47	0	0	529.75	530.46
2.581	553.41	551.81	548.80	547.11	545.76	545.08	0	0	530.42	531.27
3.577	556.18	554.46	550.96	548.83	546.84	545.79	0	0	531.18	532.17
4.574	558.53	556.73	552.89	550.36	547.84	546.43	0	0	532.12	533.28
5.570	560.62	558.73	554.61	551.84	548.83	547.08	0	0	532.97	534.18
6.567	562.50	560.56	556.24	553.24	549.80	547.75	0	0	533.82	535.12
7.563	564.29	562.24	557.75	554.55	550.70	548.42	0	0	534.63	535.88
8.560	565.91	563.80	559.20	555.77	551.67	549.09	0	0	535.38	536.77
9.557	567.44	565.30	560.56	556.99	552.57	549.74	0	0	536.28	537.71
10.553	568.90	566.72	561.84	558.18	553.50	550.41	0	0	537.22	538.64
11.550	570.31	568.04	563.11	559.34	554.40	551.08	0	0	538.06	539.45
12.546	571.66	569.37	564.35	560.45	555.31	551.78	0	0	538.82	540.38
13.543	572.93	570.60	565.53	561.55	556.21	552.51	0	0	539.53	541.09
14.539	574.16	571.81	566.66	562.62	557.11	553.21	0	0	540.47	542.03
15.536	575.33	573.01	567.78	563.66	558.01	553.94	0	0	541.32	542.83
16.533	576.48	574.13	568.85	564.70	558.88	554.67	0	0	542.21	543.76
17.465	577.54	575.16	569.85	565.62	559.72	555.36	0	0	542.96	544.52
17.529	577.59	575.22	569.91	565.68	559.78	555.39	0	0	543.05	544.56
18.526	578.68	576.28	570.97	566.69	560.65	556.18	0	0	543.76	545.36
19.522	579.76	577.34	572.01	567.64	561.52	556.93	0	0	544.52	546.16
20.519	580.76	578.36	572.98	568.59	562.38	557.66	0	0	545.45	547.00

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
35	7	TILE INSERT	0.111	.010	.010	1.072E 06	1.872E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.1	1308	29.59	30.04	30.00	.41	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0512	2.283	3816	4.514E-05	7.666E-08	2.247E 06	2.457E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
21.294	3.611	19.267	100

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.515	581.79	579.39	573.96	569.51	563.19	558.42	0	0	546.43	547.98

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
35	7	TILE INSERT	0.111	.010	.010	1.072E 06	1.872E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.1	1308	29.59	30.04	30.00	.41	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0512	2.283	3816	4.514E-05	7.666E-08	2.247E 06	2.457E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.294	3.611	19.267	100

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
10.114	1
17.593	2

NASA/RI 3C 59
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
36	7	TILE INSERT	0.111	.010	.010	1.074E 06	1.875E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.4	1307	39.35	40.03	30.00	-9.35	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0513	2.285	3814	4.519E-05	7.661E-08	2.250E 06	2.458E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.802	3.657	11.749	100

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.24	.140	567.81	6.243E-04	.0254	7.584E-04	.0309	8.496E-04	.0346	7.066E-04	.0288
7.69	.149	716.97	4.697E-03	.1911	6.033E-03	.2455	7.034E-03	.2862	5.500E-03	.2238
8.15	.158	762.92	6.434E-03	.2618	8.467E-03	.3445	1.006E-02	.4092	7.643E-03	.3110
8.60	.166	782.65	7.265E-03	.2956	9.677E-03	.3937	1.160E-02	.4721	8.693E-03	.3537
9.05	.175	789.61	7.574E-03	.3082	1.013E-02	.4123	1.219E-02	.4962	9.087E-03	.3697
9.49	.183	792.21	7.692E-03	.3130	1.031E-02	.4194	1.242E-02	.5054	9.237E-03	.3758
9.93	.192	799.14	8.011E-03	.3260	1.075E-02	.4389	1.305E-02	.5309	9.647E-03	.3925
10.37	.200	793.05	7.731E-03	.3145	1.037E-02	.4218	1.250E-02	.5085	9.287E-03	.3779
10.81	.209	802.34	8.165E-03	.3322	1.102E-02	.4483	1.335E-02	.5432	9.845E-03	.4006
11.24	.217	806.77	8.375E-03	.3408	1.134E-02	.4613	1.377E-02	.5604	1.012E-02	.4116
11.67	.226	807.35	8.404E-03	.3419	1.138E-02	.4630	1.383E-02	.5627	1.015E-02	.4131
12.10	.234	809.96	8.532E-03	.3471	1.158E-02	.4710	1.409E-02	.5732	1.032E-02	.4199
12.52	.242	809.97	8.532E-03	.3472	1.158E-02	.4710	1.409E-02	.5732	1.032E-02	.4199
12.94	.250	798.19	7.969E-03	.3242	1.072E-02	.4363	1.296E-02	.5274	9.592E-03	.3903
13.36	.258	811.73	8.618E-03	.3506	1.171E-02	.4763	1.426E-02	.5803	1.043E-02	.4244
13.78	.266	815.12	8.782E-03	.3573	1.196E-02	.4866	1.460E-02	.5941	1.065E-02	.4332
14.19	.274	815.33	8.793E-03	.3578	1.198E-02	.4873	1.462E-02	.5950	1.066E-02	.4337
14.60	.282	817.77	8.912E-03	.3626	1.216E-02	.4948	1.487E-02	.6051	1.082E-02	.4401
15.01	.290	820.06	9.026E-03	.3672	1.234E-02	.5019	1.511E-02	.6147	1.096E-02	.4461
15.41	.298	791.06	7.642E-03	.3110	1.023E-02	.4164	1.233E-02	.5015	9.174E-03	.3733
15.81	.306	814.76	8.766E-03	.3567	1.193E-02	.4856	1.457E-02	.5927	1.062E-02	.4323

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V41B-294

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
36	7	TILE INSERT	0.111	.010	.010	1.074E 06	1.875E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.4	1307	39.35	40.03	30.00	-9.35	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0513	2.285	3814	4.519E-05	7.661E-08	2.250E 06	2.458E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
13.802	3.657	11.749	100

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
15.21	.313	819.10	8.979E-03	.3653	1.226E-02	.4990	1.501E-02	.6107	1.090E-02	.4436
16.61	.321	819.47	8.997E-03	.3661	1.229E-02	.5001	1.505E-02	.6122	1.093E-02	.4446
17.00	.329	820.41	9.044E-03	.3680	1.236E-02	.5031	1.515E-02	.6162	1.099E-02	.4471
17.39	.336	819.51	9.000E-03	.3662	1.230E-02	.5003	1.505E-02	.6124	1.093E-02	.4447
17.77	.344	818.23	8.937E-03	.3636	1.220E-02	.4963	1.492E-02	.6071	1.085E-02	.4414
18.16	.351	820.47	8.559E-03	.3483	1.162E-02	.4727	1.414E-02	.5754	1.036E-02	.4213
18.54	.359	818.95	8.973E-03	.3651	1.225E-02	.4986	1.500E-02	.6101	1.090E-02	.4433
18.92	.366	821.05	9.077E-03	.3693	1.242E-02	.5052	1.521E-02	.6190	1.103E-02	.4488
19.29	.374	821.74	9.111E-03	.3707	1.247E-02	.5073	1.529E-02	.6220	1.108E-02	.4507
19.66	.382	820.04	9.027E-03	.3673	1.234E-02	.5020	1.511E-02	.6148	1.097E-02	.4462
20.03	.387	815.02	8.928E-03	.3632	1.218E-02	.4957	1.490E-02	.6063	1.084E-02	.4409
20.40	.394	804.84	8.481E-03	.3451	1.150E-02	.4678	1.398E-02	.5690	1.025E-02	.4172
20.76	.401	803.04	8.202E-03	.3337	1.107E-02	.4505	1.342E-02	.5461	9.892E-03	.4025
21.12	.408	821.51	9.101E-03	.3703	1.245E-02	.5067	1.526E-02	.6211	1.106E-02	.4502
21.48	.415	824.94	9.274E-03	.3774	1.272E-02	.5177	1.563E-02	.6360	1.129E-02	.4594
21.84	.422	824.32	9.242E-03	.3760	1.267E-02	.5156	1.550E-02	.6332	1.125E-02	.4577
22.19	.429	823.54	9.204E-03	.3745	1.261E-02	.5132	1.546E-02	.6299	1.120E-02	.4556
22.54	.436	823.92	9.222E-03	.3752	1.264E-02	.5144	1.552E-02	.6314	1.122E-02	.4566
22.88	.442	822.86	9.171E-03	.3731	1.256E-02	.5111	1.541E-02	.6270	1.116E-02	.4539
23.23	.449	797.06	7.922E-03	.3223	1.065E-02	.4334	1.287E-02	.5236	9.532E-03	.3878
23.57	.456	817.94	8.926E-03	.3632	1.218E-02	.4956	1.490E-02	.6061	1.083E-02	.4408
23.91	.462	824.11	9.232E-03	.3756	1.266E-02	.5150	1.554E-02	.6323	1.124E-02	.4572

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
36	7	TILE INSERT	0.111	.010	.010	1.074E 06	1.875E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.4	1307	39.35	40.03	30.00	-9.35	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0513	2.285	3814	4.519E-05	7.601E-08	2.250E 06	2.458E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.802	3.657	11.749	100

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.24	.469	822.42	9.148E-03	.3722	1.253E-02	.5097	1.536E-02	.6251	1.113E-02	.4527
24.57	.475	816.94	8.878E-03	.3612	1.211E-02	.4926	1.480E-02	.6020	1.077E-02	.4382
24.90	.481	815.85	8.825E-03	.3591	1.202E-02	.4892	1.469E-02	.5976	1.070E-02	.4354
25.23	.488	815.29	8.798E-03	.3580	1.198E-02	.4875	1.463E-02	.5953	1.067E-02	.4340
25.55	.494	813.38	8.705E-03	.3542	1.184E-02	.4817	1.444E-02	.5875	1.054E-02	.4290
25.87	.500	778.69	7.098E-03	.2888	9.431E-03	.3837	1.128E-02	.4591	8.480E-03	.3450

NASA/RI OHAO
V41d-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL H

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
36	7	TILE INSERT	0.111	.010	.010	1.074E 06	1.875E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.4	1307	39.35	40.03	30.00	-9.35	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0513	2.285	3814	4.519E-05	7.661E-08	2.250E 06	2.458E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.802	3.657	11.749	100

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.604	549.21	548.28	546.58	545.73	545.38	545.43	0	0	533.02	535.38
2.601	552.63	551.72	549.30	547.84	546.67	546.14	0	0	534.89	537.35
3.597	555.25	554.35	551.55	549.71	547.90	546.96	0	0	536.77	539.40
4.594	557.52	556.53	553.44	551.34	549.07	547.75	0	0	538.82	541.63
5.590	559.55	558.47	555.19	552.83	550.15	548.54	0	0	540.83	543.85
6.587	561.37	560.24	556.82	554.23	551.17	549.30	0	0	542.87	545.94
7.583	563.11	561.89	558.33	555.60	552.19	550.09	0	0	544.74	547.89
8.580	564.70	563.45	559.78	556.88	553.18	550.85	0	0	546.61	549.89
9.577	566.23	564.93	561.14	558.10	554.17	551.58	0	0	548.51	551.79
10.573	567.64	566.31	562.44	559.29	555.13	552.34	0	0	550.55	553.87
11.570	569.05	567.70	563.74	560.47	556.09	553.09	0	0	552.45	555.81
11.789	569.34	567.95	563.97	560.71	556.32	553.27	0	0	552.81	556.26
12.566	570.37	568.96	564.96	561.60	557.05	553.88	0	0	554.31	557.67
13.563	571.64	570.23	566.14	562.73	557.98	554.64	0	0	556.03	559.48
14.559	572.87	571.43	567.29	563.80	558.91	555.42	0	0	557.89	561.28
15.556	574.07	572.61	568.42	564.87	559.87	556.21	0	0	559.87	563.31
16.553	575.25	573.76	569.54	565.91	560.82	556.99	0	0	561.72	565.20

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
36	7	TILE INSERT	0.111	.010	.010	1.074E 06	1.875E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.4	1307	39.35	40.03	30.00	-9.35	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.2	.0513	2.285	3814	4.519E-05	7.661E-08	2.250E 06	2.458E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.802	3.657	11.749	100

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
11.433	1

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/HI 9H69

V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
37	7	TILE INSERT	0.111	.010	.010	1.068E 06	1.865E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.3	1310	29.55	29.99	30.00	.45	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0511	2.280	3818	4.500E-05	7.677E-08	2.238E 06	2.456E-02	83

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
20.434	3.616	18.404	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
6.81	.132	593.52	7.906E-04	.0322	9.677E-04	.0394	1.090E-03	.0444	9.416E-04	.0383
7.20	.139	696.09	3.002E-03	.1222	3.816E-03	.1554	4.415E-03	.1798	3.692E-03	.1503
7.60	.147	712.28	3.434E-03	.1398	4.399E-03	.1791	5.117E-03	.2084	4.251E-03	.1731
8.00	.155	736.26	4.115E-03	.1675	5.332E-03	.2171	6.259E-03	.2548	5.143E-03	.2094
8.39	.162	746.75	4.425E-03	.1802	5.767E-03	.2348	6.797E-03	.2767	5.557E-03	.2263
8.78	.170	745.49	4.389E-03	.1787	5.715E-03	.2327	6.733E-03	.2742	5.509E-03	.2243
9.17	.177	753.43	4.632E-03	.1886	6.058E-03	.2467	7.160E-03	.2915	5.835E-03	.2376
9.56	.185	768.27	5.103E-03	.2078	6.731E-03	.2741	8.009E-03	.3261	6.476E-03	.2636
9.95	.192	754.17	4.655E-03	.1895	6.091E-03	.2480	7.201E-03	.2932	5.866E-03	.2389
10.33	.200	782.68	5.586E-03	.2275	7.433E-03	.3027	8.906E-03	.3626	7.140E-03	.2907
10.71	.207	791.77	5.905E-03	.2404	7.903E-03	.3218	9.513E-03	.3873	7.584E-03	.3088
11.10	.214	731.38	3.972E-03	.1617	5.135E-03	.2091	6.016E-03	.2449	4.955E-03	.2018
11.48	.222	795.77	6.049E-03	.2463	8.117E-03	.3305	9.791E-03	.3987	7.787E-03	.3171
11.85	.229	798.14	6.135E-03	.2498	8.247E-03	.3358	9.960E-03	.4056	7.909E-03	.3220
12.23	.236	798.30	6.141E-03	.2501	8.256E-03	.3362	9.972E-03	.4060	7.917E-03	.3224
12.60	.244	790.70	5.867E-03	.2389	7.847E-03	.3195	9.440E-03	.3844	7.532E-03	.3067
12.98	.251	805.02	6.392E-03	.2603	8.632E-03	.3515	1.047E-02	.4261	8.272E-03	.3368
13.35	.258	808.97	6.542E-03	.2664	8.859E-03	.3607	1.077E-02	.4384	8.486E-03	.3456
13.72	.265	810.50	6.601E-03	.2688	8.948E-03	.3644	1.088E-02	.4432	8.570E-03	.3490
14.08	.272	812.04	6.660E-03	.2712	9.038E-03	.3680	1.100E-02	.4480	8.654E-03	.3524
14.45	.279	814.13	6.739E-03	.2744	9.160E-03	.3730	1.116E-02	.4546	8.769E-03	.3571

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-EYA

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
37	7	TILE INSERT	0.111	.010	.010	1.068E 06	1.865E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.3	1310	29.55	29.99	30.00	.45	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0511	2.280	3818	4.500E-05	7.677E-08	2.238E 06	2.456E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.434	3.616	18.404	1000

X (IN.)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
14.81	.286	814.39	6.750E-03	.2748	9.176E-03	.3736	1.119E-02	.4555	8.784E-03	.3577
15.17	.293	782.09	5.567E-03	.2267	7.405E-03	.3015	8.869E-03	.3611	7.114E-03	.2897
15.53	.300	813.88	6.730E-03	.2741	9.146E-03	.3724	1.115E-02	.4539	8.756E-03	.3565
15.89	.307	815.63	6.836E-03	.2783	9.308E-03	.3790	1.136E-02	.4627	8.908E-03	.3627
16.25	.314	817.32	6.863E-03	.2794	9.349E-03	.3807	1.142E-02	.4649	8.947E-03	.3643
16.60	.321	815.31	6.901E-03	.2810	9.408E-03	.3831	1.150E-02	.4681	9.002E-03	.3666
16.96	.328	818.95	6.926E-03	.2820	9.447E-03	.3847	1.155E-02	.4702	9.034E-03	.3680
17.31	.335	819.07	6.931E-03	.2822	9.454E-03	.3850	1.156E-02	.4706	9.045E-03	.3683
17.66	.341	805.31	6.404E-03	.2608	8.650E-03	.3522	1.049E-02	.4271	8.289E-03	.3375
18.01	.348	816.60	6.836E-03	.2783	9.308E-03	.3790	1.136E-02	.4626	8.908E-03	.3627
18.35	.355	819.33	6.941E-03	.2826	9.470E-03	.3856	1.158E-02	.4715	9.060E-03	.3689
18.70	.361	819.50	6.909E-03	.2813	9.420E-03	.3836	1.151E-02	.4688	9.014E-03	.3670
19.04	.368	818.67	6.916E-03	.2816	9.431E-03	.3840	1.153E-02	.4694	9.024E-03	.3674
19.38	.375	817.24	6.861E-03	.2794	9.346E-03	.3806	1.141E-02	.4647	8.944E-03	.3642
19.72	.381	814.56	6.757E-03	.2752	9.187E-03	.3741	1.120E-02	.4561	8.795E-03	.3581
20.06	.388	815.70	6.802E-03	.2769	9.255E-03	.3768	1.129E-02	.4598	8.858E-03	.3607
20.39	.394	787.34	5.577E-03	.2271	7.419E-03	.3021	8.887E-03	.3619	7.127E-03	.2902
20.73	.401	813.23	6.707E-03	.2731	9.110E-03	.3709	1.110E-02	.4519	8.722E-03	.3551
21.06	.407	820.05	6.976E-03	.2838	9.515E-03	.3874	1.164E-02	.4739	9.102E-03	.3706
21.39	.413	823.68	7.106E-03	.2893	9.722E-03	.3959	1.192E-02	.4853	9.297E-03	.3786
21.72	.420	823.76	7.115E-03	.2897	9.740E-03	.3966	1.194E-02	.4863	9.314E-03	.3792
22.05	.426	822.27	7.057E-03	.2873	9.649E-03	.3929	1.182E-02	.4813	9.228E-03	.3758

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

NASA/GI OH60
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
37	7	TILE INSERT	0.111	.010	.010	1.068E 06	1.865E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.3	1310	29.55	29.99	30.00	.45	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0511	2.280	3818	4.500E-05	7.677E-08	2.238E 06	2.456E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.434	3.616	18.404	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
22.37	.432	822.30	7.058E-03	.2874	9.651E-03	.3930	1.182E-02	.4814	9.230E-03	.3758
22.69	.439	822.31	7.059E-03	.2874	9.652E-03	.3930	1.182E-02	.4815	9.231E-03	.3759
23.02	.445	802.64	6.305E-03	.2567	8.501E-03	.3461	1.029E-02	.4191	8.149E-03	.3318
23.34	.451	814.06	6.740E-03	.2744	9.160E-03	.3730	1.116E-02	.4546	8.769E-03	.3571
23.65	.457	823.58	7.109E-03	.2895	9.730E-03	.3962	1.193E-02	.4858	9.304E-03	.3789
23.97	.463	823.38	7.101E-03	.2891	9.718E-03	.3957	1.191E-02	.4851	9.293E-03	.3784
24.29	.469	818.77	6.922E-03	.2818	9.440E-03	.3844	1.154E-02	.4698	9.032E-03	.3678
24.60	.475	814.42	6.754E-03	.2750	9.182E-03	.3739	1.119E-02	.4558	8.790E-03	.3579
24.91	.482	814.24	6.747E-03	.2747	9.171E-03	.3734	1.118E-02	.4552	8.780E-03	.3575
25.22	.487	811.34	6.635E-03	.2702	9.000E-03	.3665	1.095E-02	.4459	8.619E-03	.3509
25.53	.493	805.08	6.398E-03	.2605	8.640E-03	.3518	1.048E-02	.4266	8.280E-03	.3372
25.83	.499	761.94	4.903E-03	.1996	6.444E-03	.2624	7.645E-03	.3113	6.202E-03	.2525
26.14	.505	664.01	2.205E-03	.0898	2.766E-03	.1126	3.169E-03	.1291	2.682E-03	.1092

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH60
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
37	7	TILE INSERT	0.111	.010	.010	1.068E 06	1.865E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.3	1310	29.55	29.99	30.00	.45	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0511	2.290	3818	4.500E-05	7.677E-08	2.238E 06	2.456E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.434	3.616	18.404	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.586	550.23	548.65	546.48	545.46	544.87	544.73	0	0	532.25	532.93
2.583	553.73	552.16	549.12	547.92	546.05	545.37	0	0	533.15	534.00
3.579	556.49	554.84	551.28	549.15	547.10	546.05	0	0	534.04	534.89
4.576	558.85	557.08	553.18	550.70	548.15	546.69	0	0	534.85	535.88
5.572	560.93	559.08	554.95	552.10	549.12	547.36	0	0	535.65	536.72
6.569	562.84	560.87	556.55	553.56	550.05	548.04	0	0	536.37	537.57
7.565	564.58	562.58	558.06	554.84	551.02	548.71	0	0	537.17	538.33
8.562	566.22	564.14	559.51	556.12	551.95	549.35	0	0	538.06	539.27
9.559	567.78	565.64	560.87	557.34	552.86	550.03	0	0	539.04	540.29
10.555	569.25	567.06	562.21	558.50	553.79	550.73	0	0	539.94	541.27
11.552	570.63	568.41	563.45	559.66	554.69	551.40	0	0	540.56	542.03
12.548	571.96	569.71	564.66	560.74	555.59	552.07	0	0	541.40	542.74
13.545	573.24	570.94	565.90	561.86	556.52	552.83	0	0	542.12	543.58
14.541	574.47	572.18	567.00	562.93	557.42	553.50	0	0	543.01	544.38
15.538	575.64	573.32	568.09	563.97	558.29	554.22	0	0	543.85	545.36
16.535	576.79	574.47	569.22	565.01	559.19	554.95	0	0	544.74	546.25
17.531	577.93	575.56	570.25	565.99	560.06	555.71	0	0	545.50	546.92
18.199	578.65	576.30	570.97	566.65	560.67	556.20	0	0	546.07	547.58
18.528	579.02	576.62	571.31	567.00	560.93	556.46	0	0	546.21	547.76
19.524	580.07	577.70	572.32	567.95	561.83	557.22	0	0	546.96	548.51
20.521	581.10	578.70	573.32	568.93	562.67	557.98	0	0	547.85	549.40

AEDC (ARO, INC.) ARNOLD AFS, TENNESSEE 12/03/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/GT OHIO

V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
37	7	TILE INSERT	0.111	.010	.010	1.068E 06	1.865E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.3	1310	29.55	29.99	30.00	.45	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0511	2.290	3818	4.500E-05	7.677E-08	2.238E 06	2.456E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.434	3.616	18.404	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.517	582.15	579.70	574.30	569.85	563.48	558.73	0	0	548.73	550.37

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
37	7	TILE INSERT	0.111	.010	.010	1.068E 06	1.865E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.3	1310	29.55	29.99	30.00	.45	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0511	2.280	3818	4.500E-05	7.677E-08	2.238E 06	2.456E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.434	3.616	18.404	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.356	1
10.523	2
17.737	3

AEDC (ARO.INC.) ARNOLD AFS. TENNESSEE 12/03/75

VON-KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H69

V.1B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
38	7	TILE INSERT	0.111	.010	.010	1.192E 06	2.080E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.2	1320	29.45	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0574	2.567	3833	5.026E-05	7.718E-08	2.496E 06	2.609E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
227.10*	3.630	225.06*	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
38	7	TILE INSERT	0.111	.010	.010	1.192E 06	2.080E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.2	1320	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0574	2.567	3833	5.026E-05	7.718E-08	2.496E 06	2.609E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
227.10*	3.630	225.06*	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.592	550.29	548.63	546.26	545.17	544.67	544.41	0	0	529.97	530.87
2.589	554.08	552.37	549.07	547.25	545.73	545.02	0	0	531.00	532.03
3.585	557.02	555.22	551.43	549.07	546.87	545.73	0	0	531.94	533.06
4.582	559.58	557.63	553.53	550.76	548.01	546.46	0	0	532.88	534.13
5.578	561.84	559.78	555.36	552.34	549.04	547.19	0	0	533.73	535.03
6.575	563.86	561.75	557.11	553.82	550.09	547.90	0	0	534.80	536.19
7.571	565.70	563.54	558.73	555.25	551.11	548.60	0	0	535.88	537.39
8.568	567.52	565.27	560.30	556.62	552.10	549.33	0	0	536.90	538.46
9.565	569.19	566.86	561.78	557.92	553.09	550.03	0	0	537.80	539.36
10.561	570.77	568.42	563.19	559.20	554.11	550.79	0	0	538.64	540.34
11.558	572.27	569.55	564.55	560.45	555.10	551.52	0	0	539.67	541.32
12.554	573.70	571.23	565.85	561.03	556.06	552.28	0	0	540.78	542.34
13.551	575.10	572.61	567.15	562.82	557.05	553.04	0	0	541.76	543.45
14.547	576.42	573.93	568.36	563.97	558.01	553.79	0	0	542.78	544.47
14.758	576.60	574.19	568.62	564.21	558.21	553.97	0	0	542.78	544.56
15.544	577.68	575.19	569.57	565.07	558.97	554.58	0	0	543.58	545.27
16.541	578.94	576.36	570.75	566.20	559.92	555.39	0	0	544.52	546.25
17.537	580.11	577.56	571.92	567.20	560.88	556.18	0	0	545.54	547.23
18.534	581.27	578.71	573.01	568.33	561.81	556.96	0	0	546.52	548.29
19.530	582.44	579.85	574.13	569.39	562.76	557.81	0	0	547.58	549.31
20.527	583.52	580.96	575.19	570.43	563.69	558.62	0	0	548.38	550.24

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL P

NASA/RI OH60

V418-E9A

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
38	7	TILE INSERT	0.111	.010	.010	1.192E 06	2.080E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.2	1320	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0574	2.567	3833	5.026E-05	7.718E-08	2.496E 06	2.609E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
227.10*	3.630	225.06*	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.523	584.66	582.01	576.25	571.43	564.61	559.46	0	0	549.27	550.99
22.520	585.71	583.10	577.28	572.47	565.97	560.30	0	0	550.20	552.14

NASA/RI 0462
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
38	7	TILE INSERT	0.111	.010	.010	1.192E 06	2.080E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.2	1320	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0574	2.567	3833	5.026E-05	7.718E-08	2.496E 06	2.609E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
227.10*	3.630	225.06*	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.458	1
10.200	2
16.042	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL G

NASA/RI OH69
V418-E94

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
39	7	TILE INSERT	0.111	.010	.010	1.190E 06	2.077E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	555.7	1321	39.23	39.98	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0574	2.564	3834	5.020E-05	7.722E-08	2.492E 06	2.608E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.139	3.643	9.094	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.24	.140	598.33	1.182E-03	.0453	1.447E-03	.0555	1.629E-03	.0625	1.344E-03	.0515
7.69	.149	749.60	6.242E-03	.2393	8.120E-03	.3113	9.558E-03	.3664	7.366E-03	.2824
8.15	.158	778.92	7.551E-03	.2895	9.985E-03	.3828	1.190E-02	.4564	8.998E-03	.3450
8.60	.166	789.49	8.057E-03	.3089	1.072E-02	.4111	1.285E-02	.4927	9.639E-03	.3695
9.05	.175	792.03	8.183E-03	.3137	1.091E-02	.4182	1.309E-02	.5018	9.798E-03	.3756
9.49	.183	793.74	8.268E-03	.3170	1.103E-02	.4230	1.325E-02	.5080	9.907E-03	.3798
9.93	.192	798.91	8.528E-03	.3270	1.142E-02	.4378	1.375E-02	.5271	1.024E-02	.3925
10.37	.200	799.99	8.584E-03	.3291	1.150E-02	.4409	1.386E-02	.5312	1.031E-02	.3952
10.81	.209	807.04	8.950E-03	.3431	1.205E-02	.4619	1.457E-02	.5586	1.078E-02	.4133
11.24	.217	807.23	8.960E-03	.3435	1.206E-02	.4625	1.459E-02	.5594	1.079E-02	.4138
11.67	.226	807.93	8.997E-03	.3449	1.212E-02	.4646	1.466E-02	.5622	1.084E-02	.4156
12.10	.234	810.32	9.124E-03	.3498	1.231E-02	.4719	1.491E-02	.5718	1.100E-02	.4218
12.52	.242	810.96	9.158E-03	.3511	1.236E-02	.4739	1.498E-02	.5744	1.105E-02	.4235
12.94	.250	812.24	9.226E-03	.3537	1.246E-02	.4778	1.512E-02	.5795	1.113E-02	.4269
13.36	.258	814.40	9.340E-03	.3581	1.264E-02	.4845	1.535E-02	.5883	1.128E-02	.4326
13.78	.266	815.98	9.424E-03	.3613	1.277E-02	.4894	1.552E-02	.5948	1.139E-02	.4367
14.19	.274	817.55	9.508E-03	.3645	1.289E-02	.4943	1.568E-02	.6013	1.150E-02	.4409
14.60	.282	821.37	9.713E-03	.3724	1.321E-02	.5063	1.610E-02	.6174	1.177E-02	.4511
15.01	.290	822.46	9.772E-03	.3746	1.330E-02	.5098	1.622E-02	.6220	1.184E-02	.4545
15.41	.298	808.69	9.041E-03	.3466	1.218E-02	.4671	1.475E-02	.5654	1.090E-02	.4177
15.81	.306	821.33	9.712E-03	.3723	1.321E-02	.5063	1.610E-02	.6173	1.177E-02	.4511

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
39	7	TILE INSERT	0.111	.010	.010	1.190E 06	2.077E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	555.7	1321	39.23	39.98	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0574	2.564	3834	5.020E-05	7.722E-08	2.492E 06	2.608E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.139	3.643	9.094	1000

X (IN)	X/L	TW (DEG R)	HI(TO)	HI(TO)/HREF	HI(0.9TO)	HI(.9TO)/HREF	HI(.85TO)	HI(.85TO)/HREF	HI(.934TO)	HI(.934TO)/HREF
15.21	.313	822.16	9.757E-03	.3741	1.327E-02	.5089	1.619E-02	.6208	1.182E-02	.4533
16.61	.321	822.62	9.782E-03	.3750	1.331E-02	.5104	1.624E-02	.6228	1.186E-02	.4546
17.00	.329	824.18	9.867E-03	.3783	1.344E-02	.5154	1.642E-02	.6295	1.197E-02	.4588
17.39	.336	824.51	9.885E-03	.3790	1.347E-02	.5165	1.646E-02	.6309	1.199E-02	.4597
17.77	.344	824.59	9.890E-03	.3792	1.348E-02	.5168	1.647E-02	.6313	1.200E-02	.4600
18.16	.351	825.69	9.950E-03	.3815	1.357E-02	.5203	1.659E-02	.6361	1.208E-02	.4630
18.54	.358	825.60	9.945E-03	.3813	1.356E-02	.5200	1.658E-02	.6357	1.207E-02	.4628
18.92	.366	826.99	1.002E-02	.3842	1.368E-02	.5246	1.674E-02	.6418	1.217E-02	.4666
19.29	.373	824.94	9.911E-03	.3800	1.351E-02	.5180	1.651E-02	.6330	1.203E-02	.4610
19.66	.380	822.15	9.759E-03	.3741	1.328E-02	.5090	1.620E-02	.6209	1.183E-02	.4534
20.03	.387	823.12	9.812E-03	.3762	1.336E-02	.5121	1.630E-02	.6251	1.190E-02	.4561
20.40	.394	815.28	9.342E-03	.3601	1.272E-02	.4875	1.545E-02	.5923	1.135E-02	.4351
20.76	.401	822.84	9.798E-03	.3756	1.334E-02	.5113	1.628E-02	.6240	1.188E-02	.4553
21.12	.408	826.78	1.001E-02	.3839	1.367E-02	.5240	1.672E-02	.6410	1.216E-02	.4661
21.48	.415	829.40	1.016E-02	.3894	1.389E-02	.5326	1.702E-02	.6525	1.235E-02	.4733
21.84	.422	828.86	1.013E-02	.3883	1.385E-02	.5309	1.696E-02	.6503	1.231E-02	.4719
22.19	.429	828.02	1.008E-02	.3865	1.377E-02	.5281	1.686E-02	.6465	1.225E-02	.4696
22.54	.436	828.37	1.010E-02	.3872	1.380E-02	.5292	1.690E-02	.6481	1.227E-02	.4706
22.88	.442	827.52	1.005E-02	.3855	1.373E-02	.5265	1.681E-02	.6443	1.221E-02	.4682
23.23	.449	825.70	9.956E-03	.3817	1.358E-02	.5206	1.660E-02	.6364	1.208E-02	.4633
23.57	.456	829.50	1.016E-02	.3897	1.390E-02	.5335	1.704E-02	.6531	1.236E-02	.4737
23.91	.462	829.01	1.014E-02	.3886	1.386E-02	.5314	1.698E-02	.6510	1.232E-02	.4724

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
39	7	TILE INSERT	0.111	.010	.010	1.190E 06	2.077E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	555.7	1321	39.23	39.98	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0574	2.564	3834	5.020E-05	7.722E-08	2.492E 06	2.608E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.139	3.643	9.094	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.24	.469	824.89	9.912E-03	.3800	1.351E-02	.5180	1.651E-02	.6330	1.203E-02	.4611
24.57	.475	821.31	9.719E-03	.3726	1.321E-02	.5066	1.611E-02	.6177	1.177E-02	.4514
24.90	.481	820.66	9.684E-03	.3713	1.316E-02	.5045	1.604E-02	.6149	1.173E-02	.4496
25.23	.488	819.06	9.598E-03	.3680	1.303E-02	.4995	1.586E-02	.6082	1.162E-02	.4454
25.55	.494	815.32	9.399E-03	.3603	1.273E-02	.4879	1.546E-02	.5927	1.136E-02	.4354
25.87	.500	799.15	8.553E-03	.3279	1.145E-02	.4391	1.379E-02	.5288	1.027E-02	.3937

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
39	7	TILE INSERT	0.111	.010	.010	1.190E 06	2.077E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	555.7	1321	39.23	39.98	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0574	2.564	3834	5.020E-05	7.722E-08	2.492E 06	2.608E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.139	3.643	9.094	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.598	549.82	548.90	546.95	546.02	545.61	545.69	0	0	533.02	535.61
2.595	553.47	552.54	549.91	548.30	546.98	546.43	0	0	535.43	538.20
3.591	556.32	555.33	552.30	550.29	548.30	547.31	0	0	537.66	540.69
4.588	558.73	557.69	554.40	552.07	549.56	548.18	0	0	539.85	543.18
5.584	560.93	559.77	556.29	553.70	550.73	549.03	0	0	542.07	545.45
6.581	562.90	561.71	558.00	555.21	551.86	549.85	0	0	544.34	547.89
7.577	564.78	563.51	559.66	556.64	552.97	550.67	0	0	546.61	550.37
8.574	566.48	565.19	561.19	558.03	554.02	551.49	0	0	548.82	552.50
9.572	567.35	565.96	561.95	558.67	554.57	551.89	0	0	549.75	553.60
9.571	568.15	566.77	562.70	559.37	555.10	552.33	0	0	550.91	554.71
10.567	569.71	568.30	564.11	560.67	556.15	553.15	0	0	552.90	556.74
11.564	571.17	569.73	565.50	561.92	557.19	553.96	0	0	555.02	558.86
12.560	572.64	571.14	566.80	563.16	558.21	554.78	0	0	557.18	560.97
13.557	574.01	572.52	568.09	564.37	559.25	555.59	0	0	559.39	563.26
14.553	575.36	573.84	569.33	565.53	560.50	556.44	0	0	561.33	565.29

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
39	7	TILE INSERT	0.111	.010	.010	1.190E 06	2.077E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	555.7	1321	39.23	39.98	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0574	2.564	3834	5.020E-05	7.722E-08	2.492E 06	2.608E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.139	3.643	9.094	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.409	1
8.857	2

NASA/RI ONGO
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
40	7	TILE INSERT	0.111	.010	.010	9.364E 05	1.635E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	422.9	1294	29.63	30.02	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0440	1.962	3795	3.921E-05	7.585E-08	1.962E 06	2.274E-02	85

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
21.540	3.616	19.510	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
7.20	.139	611.22	1.070E-03	.0471	1.321E-03	.0581	1.496E-03	.0658	1.283E-03	.0564
7.60	.147	662.42	2.119E-03	.0932	2.665E-03	.1172	3.059E-03	.1346	2.582E-03	.1136
8.00	.155	681.39	2.578E-03	.1134	3.268E-03	.1437	3.773E-03	.1660	3.163E-03	.1391
8.39	.162	694.28	2.905E-03	.1278	3.705E-03	.1629	4.296E-03	.1889	3.582E-03	.1575
8.78	.170	706.99	3.240E-03	.1425	4.157E-03	.1828	4.841E-03	.2129	4.015E-03	.1766
9.17	.177	707.12	3.244E-03	.1427	4.162E-03	.1830	4.847E-03	.2132	4.020E-03	.1768
9.56	.185	715.05	3.460E-03	.1522	4.456E-03	.1959	5.205E-03	.2289	4.301E-03	.1892
9.95	.192	725.91	3.764E-03	.1655	4.874E-03	.2143	5.717E-03	.2514	4.701E-03	.2068
10.33	.200	733.78	3.990E-03	.1755	5.189E-03	.2282	6.106E-03	.2685	5.002E-03	.2200
10.71	.207	751.56	4.523E-03	.1989	5.940E-03	.2612	7.043E-03	.3098	5.717E-03	.2514
11.10	.214	758.44	4.738E-03	.2084	6.248E-03	.2748	7.431E-03	.3268	6.009E-03	.2643
11.48	.222	763.54	4.901E-03	.2155	6.482E-03	.2851	7.728E-03	.3399	6.231E-03	.2740
11.85	.229	769.18	5.084E-03	.2236	6.748E-03	.2968	8.068E-03	.3548	6.484E-03	.2851
12.23	.236	771.65	5.133E-03	.2257	6.819E-03	.2999	8.158E-03	.3588	6.550E-03	.2881
12.60	.244	775.55	5.296E-03	.2329	7.057E-03	.3104	8.465E-03	.3723	6.777E-03	.2980
12.98	.251	781.22	5.489E-03	.2414	7.341E-03	.3229	8.832E-03	.3884	7.045E-03	.3098
13.35	.258	785.77	5.646E-03	.2483	7.575E-03	.3331	9.135E-03	.4018	7.266E-03	.3195
13.72	.265	789.09	5.764E-03	.2535	7.750E-03	.3408	9.363E-03	.4118	7.431E-03	.3268
14.08	.272	791.07	5.834E-03	.2566	7.855E-03	.3455	9.501E-03	.4178	7.530E-03	.3312
14.45	.279	795.07	5.979E-03	.2629	8.073E-03	.3550	9.786E-03	.4304	7.735E-03	.3402
14.81	.286	797.48	6.067E-03	.2668	8.205E-03	.3609	9.961E-03	.4381	7.860E-03	.3457

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH60
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
40	7	TILE INSERT	0.111	.010	.010	9.364E 05	1.635E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	422.9	1294	29.63	30.02	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (F=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0440	1.962	3795	3.521E-05	7.585E-08	1.962E 06	2.274E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.540	3.616	19.510	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.17	.293	792.38	5.882E-03	.2587	7.926E-03	.3486	9.594E-03	.4219	7.597E-03	.3341
15.53	.300	726.59	3.784E-03	.1664	4.902E-03	.2156	5.751E-03	.2529	4.728E-03	.2079
15.89	.307	799.01	6.124E-03	.2693	8.291E-03	.3647	1.007E-02	.4431	7.941E-03	.3493
16.25	.314	799.54	6.144E-03	.2702	8.322E-03	.3660	1.011E-02	.4448	7.970E-03	.3505
16.60	.321	801.70	6.224E-03	.2737	8.444E-03	.3713	1.028E-02	.4519	8.085E-03	.3556
16.96	.328	802.79	6.265E-03	.2755	8.506E-03	.3741	1.036E-02	.4555	8.143E-03	.3581
17.31	.335	803.38	6.288E-03	.2765	8.540E-03	.3756	1.040E-02	.4575	8.175E-03	.3595
17.66	.341	803.81	6.304E-03	.2772	8.565E-03	.3767	1.044E-02	.4590	8.199E-03	.3606
18.01	.348	804.12	6.316E-03	.2778	8.583E-03	.3775	1.046E-02	.4600	8.216E-03	.3613
18.35	.355	804.99	6.349E-03	.2792	8.633E-03	.3797	1.053E-02	.4630	8.263E-03	.3634
18.70	.361	804.19	6.319E-03	.2779	8.587E-03	.3777	1.047E-02	.4603	8.220E-03	.3615
19.04	.368	803.78	6.303E-03	.2772	8.564E-03	.3766	1.043E-02	.4589	8.197E-03	.3605
19.38	.375	803.17	6.280E-03	.2762	8.529E-03	.3751	1.039E-02	.4569	8.165E-03	.3591
19.72	.381	802.01	6.237E-03	.2743	8.462E-03	.3722	1.030E-02	.4530	8.102E-03	.3563
20.06	.388	798.75	6.116E-03	.2690	8.279E-03	.3641	1.006E-02	.4423	7.929E-03	.3487
20.39	.394	800.97	6.198E-03	.2726	8.404E-03	.3696	1.022E-02	.4496	8.047E-03	.3539
20.73	.401	794.08	5.944E-03	.2614	8.020E-03	.3527	9.717E-03	.4273	7.686E-03	.3380
21.06	.407	803.72	6.302E-03	.2771	8.561E-03	.3765	1.043E-02	.4588	8.195E-03	.3604
21.39	.413	805.76	6.380E-03	.2806	8.680E-03	.3817	1.059E-02	.4657	8.307E-03	.3653
21.72	.420	807.67	6.453E-03	.2838	8.792E-03	.3867	1.074E-02	.4723	8.412E-03	.3700
22.05	.426	807.68	6.453E-03	.2838	8.793E-03	.3867	1.074E-02	.4723	8.413E-03	.3700
22.37	.432	806.31	6.401E-03	.2815	8.712E-03	.3832	1.063E-02	.4676	8.337E-03	.3667

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
40	7	TILE INSERT	0.111	.010	.010	9.364E 05	1.635E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	422.9	1294	29.63	30.02	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0440	1.962	3795	3.921E-05	7.585E-08	1.962E 06	2.274E-02	85

ICIAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.540	3.616	19.510	1000

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
22.69	.439	805.32	6.363E-03	.2798	8.655E-03	.3806	1.056E-02	.4642	8.283E-03	.3643
23.02	.445	805.05	6.353E-03	.2794	8.639E-03	.3799	1.053E-02	.4633	8.268E-03	.3636
23.34	.451	802.24	6.247E-03	.2747	8.477E-03	.3728	1.032E-02	.4539	8.116E-03	.3569
23.65	.457	803.76	6.304E-03	.2772	8.564E-03	.3767	1.044E-02	.4589	8.198E-03	.3606
23.97	.463	806.14	6.395E-03	.2813	8.704E-03	.3828	1.062E-02	.4671	8.329E-03	.3663
24.29	.469	806.24	6.399E-03	.2814	8.709E-03	.3830	1.063E-02	.4674	8.334E-03	.3665
24.60	.475	800.99	6.200E-03	.2727	8.407E-03	.3697	1.023E-02	.4497	8.050E-03	.3540
24.91	.482	799.21	6.134E-03	.2698	8.306E-03	.3653	1.009E-02	.4439	7.955E-03	.3499
25.22	.487	795.85	6.011E-03	.2643	8.120E-03	.3571	9.847E-03	.4331	7.780E-03	.3421
25.53	.493	793.73	5.933E-03	.2609	8.003E-03	.3520	9.694E-03	.4264	7.670E-03	.3373
25.83	.499	790.08	5.802E-03	.2552	7.807E-03	.3433	9.437E-03	.4150	7.485E-03	.3292
26.14	.505	765.24	4.959E-03	.2181	6.566E-03	.2888	7.835E-03	.3446	6.311E-03	.2776

NASA/RI OH62
V41B-E9A

AEDC (AHO.INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
40	7	TILE INSERT	0.111	.010	.010	9.364E 05	1.635E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	422.9	1294	29.63	30.02	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	G - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0440	1.962	3795	3.521E-05	7.585E-08	1.962E 06	2.274E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
21.540	3.616	19.510	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.586	545.78	544.34	542.32	541.41	540.99	540.73	0	0	528.76	529.21
2.583	549.03	547.54	544.73	543.17	541.94	541.29	0	0	529.30	529.93
3.579	551.54	549.97	546.72	544.73	542.93	541.94	0	0	529.97	530.73
4.576	553.70	552.04	548.48	546.10	543.85	542.55	0	0	530.73	531.54
5.572	555.62	553.88	550.08	547.51	544.76	543.14	0	0	531.40	532.39
6.569	557.39	555.53	551.57	548.77	545.66	543.76	0	0	532.03	533.06
7.565	558.96	557.04	552.94	550.00	546.48	544.37	0	0	532.66	533.69
8.562	560.47	558.53	554.25	551.13	547.36	544.96	0	0	533.42	534.36
9.559	561.92	559.92	555.51	552.24	548.21	545.58	0	0	534.22	535.30
10.555	563.22	561.19	556.73	553.35	549.06	546.19	0	0	534.89	535.97
11.552	564.49	562.44	557.89	554.40	549.88	546.84	0	0	535.47	536.68
12.548	565.70	563.62	558.99	555.42	550.73	547.48	0	0	536.10	537.30
13.545	566.88	564.75	560.09	556.41	551.54	548.12	0	0	536.81	538.11
14.541	568.01	565.87	561.11	557.34	552.36	548.77	0	0	537.62	538.73
15.538	569.10	566.94	562.15	558.35	553.18	549.41	0	0	538.29	539.53
16.535	570.14	567.95	563.16	559.28	553.99	550.08	0	0	538.95	540.20
17.531	571.17	568.96	564.14	560.21	554.81	550.81	0	0	539.53	540.83
18.528	572.20	569.94	565.07	561.11	555.59	551.49	0	0	540.20	541.54
19.524	573.15	570.91	565.99	562.00	556.41	552.16	0	0	540.96	542.21
20.429	574.01	571.77	566.83	562.78	557.13	552.80	0	0	541.49	542.83
20.521	574.13	571.89	566.91	562.87	557.19	552.86	0	0	541.72	543.10

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
40	7	TILE INSERT	0.111	.010	.010	9.364E 05	1.635E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	422.9	1294	29.63	30.02	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0440	1.902	3795	3.521E-05	7.585E-08	1.962E 06	2.274E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.540	3.616	19.510	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.517	575.04	572.81	567.81	563.74	558.00	553.56	0	0	542.38	543.67
22.514	576.96	573.70	568.70	564.61	558.79	554.28	0	0	542.96	544.16
23.511	576.85	574.61	569.55	565.47	559.57	555.01	0	0	543.58	544.96
24.507	577.70	575.44	570.42	566.31	560.32	555.71	0	0	544.38	545.63
25.504	578.62	576.33	571.29	567.14	561.14	556.44	0	0	545.05	546.38
26.500	579.47	577.19	572.15	567.95	561.92	557.13	0	0	545.72	547.14
27.497	580.33	578.02	573.01	568.76	562.67	557.86	0	0	546.34	547.63
28.493	581.16	578.87	573.84	569.59	563.42	558.61	0	0	546.92	548.29

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12/03/75

L = 4.311 FT

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40	7	TILE INSERT	0.111	.010	.010	9.364E 05	1.635E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	422.9	1294	29.63	30.02	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (F=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0440	1.922	3795	3.521E-05	7.585E-08	1.962E 06	2.274E-02	85

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.540	3.616	19.510	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.193	1
10.916	2
24.594	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
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50 INCH HYPERSONIC TUNNEL B

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V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
41	7	TILE INSERT	0.111	.010	.010	9.354E 05	1.633E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.3	1298	39.44	40.03	30.00	-9.44	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0442	1.969	3801	3.922E-05	7.607E-08	1.960E 06	2.279E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
17.842	3.630	15.804	1000

X (IN)	X/L	TW (DEG R)	H(T0)	H(T0)/HREF	H(0.9T0)	H(0.9T0)/HREF	H(.85T0)	H(.85T0)/HREF	H(.934T0)	H(.934T0)/HREF
7.69	.149	699.46	3.376E-03	.1481	4.311E-03	.1892	5.003E-03	.2196	3.939E-03	.1728
8.15	.158	753.99	5.097E-03	.2237	6.694E-03	.2938	7.939E-03	.3484	6.048E-03	.2654
8.60	.166	770.78	5.690E-03	.2497	7.549E-03	.3313	9.023E-03	.3959	6.792E-03	.2981
9.05	.175	778.46	5.972E-03	.2621	7.961E-03	.3494	9.552E-03	.4192	7.149E-03	.3137
9.49	.183	786.06	6.263E-03	.2749	8.391E-03	.3682	1.011E-02	.4436	7.520E-03	.3300
9.93	.192	791.75	6.486E-03	.2846	8.723E-03	.3828	1.054E-02	.4625	7.805E-03	.3425
10.37	.200	798.80	6.769E-03	.2970	9.148E-03	.4015	1.110E-02	.4870	8.169E-03	.3585
10.81	.209	803.54	6.964E-03	.3056	9.444E-03	.4144	1.149E-02	.5042	8.421E-03	.3696
11.24	.217	809.25	7.163E-03	.3143	9.746E-03	.4277	1.189E-02	.5218	8.679E-03	.3808
11.67	.226	809.29	7.207E-03	.3163	9.815E-03	.4307	1.198E-02	.5258	8.737E-03	.3834
12.10	.234	810.88	7.274E-03	.3192	9.918E-03	.4352	1.212E-02	.5318	8.824E-03	.3872
12.52	.242	811.87	7.316E-03	.3211	9.982E-03	.4380	1.221E-02	.5356	8.879E-03	.3896
12.94	.250	813.35	7.379E-03	.3238	1.008E-02	.4423	1.234E-02	.5413	8.961E-03	.3932
13.36	.258	815.51	7.471E-03	.3279	1.022E-02	.4485	1.253E-02	.5497	9.081E-03	.3985
13.78	.266	817.02	7.536E-03	.3307	1.032E-02	.4530	1.266E-02	.5557	9.166E-03	.4022
14.19	.274	818.80	7.612E-03	.3341	1.044E-02	.4582	1.282E-02	.5628	9.267E-03	.4067
14.60	.282	822.36	7.766E-03	.3408	1.068E-02	.4688	1.315E-02	.5771	9.470E-03	.4156
15.01	.290	824.27	7.850E-03	.3445	1.081E-02	.4745	1.333E-02	.5849	9.580E-03	.4204
15.41	.298	812.14	7.329E-03	.3216	1.000E-02	.4389	1.223E-02	.5367	8.895E-03	.3903
15.81	.306	822.14	7.757E-03	.3404	1.067E-02	.4681	1.313E-02	.5762	9.457E-03	.4150
16.21	.313	823.78	7.829E-03	.3436	1.078E-02	.4731	1.328E-02	.5830	9.552E-03	.4192

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12/03/75

L = 4.311 FT

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T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0442	1.969	3801	3.922E-05	7.607E-08	1.960E 06	2.279E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
17.842	3.630	15.804	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	825.50	7.904E-03	.3469	1.090E-02	.4783	1.345E-02	.5901	9.652E-03	.4236
17.00	.329	826.65	7.955E-03	.3491	1.098E-02	.4818	1.356E-02	.5949	9.719E-03	.4265
17.39	.336	826.68	7.956E-03	.3491	1.098E-02	.4819	1.356E-02	.5950	9.721E-03	.4266
17.77	.344	827.50	7.993E-03	.3507	1.104E-02	.4844	1.364E-02	.5984	9.769E-03	.4287
18.16	.351	827.85	8.008E-03	.3514	1.106E-02	.4855	1.367E-02	.5999	9.790E-03	.4296
18.54	.358	827.95	8.013E-03	.3516	1.107E-02	.4858	1.368E-02	.6004	9.796E-03	.4299
18.92	.366	828.42	8.034E-03	.3525	1.110E-02	.4873	1.373E-02	.6023	9.823E-03	.4311
19.29	.373	827.37	7.986E-03	.3505	1.103E-02	.4841	1.363E-02	.5980	9.762E-03	.4284
19.66	.380	826.63	7.955E-03	.3491	1.098E-02	.4818	1.356E-02	.5949	9.719E-03	.4265
20.03	.387	824.91	7.880E-03	.3458	1.086E-02	.4766	1.339E-02	.5877	9.619E-03	.4221
20.40	.394	824.25	7.851E-03	.3445	1.081E-02	.4746	1.333E-02	.5850	9.581E-03	.4205
20.76	.401	818.42	7.598E-03	.3334	1.042E-02	.4572	1.279E-02	.5614	9.248E-03	.4058
21.12	.408	827.82	8.008E-03	.3514	1.106E-02	.4855	1.367E-02	.5999	9.790E-03	.4296
21.48	.415	831.17	8.157E-03	.3580	1.130E-02	.4959	1.399E-02	.6141	9.987E-03	.4383
21.84	.422	830.94	8.147E-03	.3575	1.128E-02	.4951	1.397E-02	.6132	9.973E-03	.4377
22.19	.429	830.71	8.137E-03	.3571	1.127E-02	.4944	1.395E-02	.6122	9.960E-03	.4371
22.54	.436	830.25	8.116E-03	.3562	1.123E-02	.4930	1.391E-02	.6102	9.933E-03	.4359
22.88	.442	830.56	8.130E-03	.3568	1.126E-02	.4940	1.394E-02	.6116	9.952E-03	.4367
23.23	.449	826.77	7.963E-03	.3494	1.099E-02	.4823	1.357E-02	.5956	9.729E-03	.4270
23.57	.456	829.17	8.069E-03	.3541	1.116E-02	.4897	1.380E-02	.6057	9.870E-03	.4331
23.91	.462	830.68	8.136E-03	.3570	1.127E-02	.4944	1.395E-02	.6121	9.959E-03	.4371
24.24	.469	829.25	8.073E-03	.3543	1.116E-02	.4900	1.381E-02	.6060	9.875E-03	.4333

L = 4.311 FT

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MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.3	1298	39.44	40.03	30.00	-9.44	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
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TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
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X (IN)	X/L	TW (DEG R)	H(T0)	H(T0)/HREF	H(0.9T0)	H(.9T0)/HREF	H(.85T0)	H(.85T0)/HREF	H(.934T0)	H(.934T0)/HREF
24.57	.475	823.87	7.836E-03	.3439	1.079E-02	.4736	1.330E-02	.5836	9.562E-03	.4196
24.90	.481	822.07	7.758E-03	.3405	1.067E-02	.4682	1.313E-02	.5762	9.459E-03	.4151
25.23	.488	821.14	7.718E-03	.3387	1.061E-02	.4654	1.305E-02	.5725	9.405E-03	.4127
25.55	.494	819.43	7.644E-03	.3355	1.049E-02	.4603	1.289E-02	.5656	9.306E-03	.4085
25.87	.500	806.61	7.099E-03	.3115	9.648E-03	.4234	1.176E-02	.5160	8.595E-03	.3772

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1.592	547.19	546.31	544.73	543.96	543.61	543.61	0	0	529.48	531.63
2.589	550.38	549.53	547.25	545.96	544.87	544.31	0	0	531.00	533.15
3.555	552.77	551.92	549.32	547.66	545.99	545.08	0	0	532.70	534.85
4.592	554.89	553.93	551.11	549.18	547.07	545.84	0	0	534.36	536.72
5.578	556.76	555.74	552.71	550.55	548.07	546.54	0	0	536.19	539.69
6.575	558.44	557.37	554.17	551.84	549.00	547.25	0	0	538.02	540.51
7.571	560.03	558.90	555.56	553.06	549.94	547.98	0	0	539.67	542.29
8.568	561.51	560.35	556.90	554.25	550.90	548.65	0	0	541.32	543.90
9.565	562.90	561.71	558.18	555.42	551.78	549.35	0	0	542.87	545.63
10.561	564.23	562.99	559.40	556.52	552.68	550.05	0	0	544.61	547.36
11.558	565.50	564.23	560.56	557.57	553.56	550.76	0	0	546.34	549.13
12.554	566.74	565.44	561.69	558.64	554.43	551.46	0	0	548.07	550.86
13.551	567.92	566.60	562.78	559.66	555.30	552.19	0	0	549.71	552.50
14.547	569.04	567.69	563.88	560.67	556.17	552.88	0	0	551.26	554.13
15.544	570.14	568.78	564.92	561.66	557.02	553.61	0	0	552.72	555.64
16.905	570.54	569.16	565.27	562.00	557.34	553.88	0	0	553.47	556.26
18.541	571.23	569.82	565.93	562.61	557.89	554.34	0	0	554.44	557.32
17.537	572.26	570.86	566.91	563.57	558.73	555.07	0	0	556.12	558.99
18.534	573.29	571.89	567.89	564.52	559.57	555.80	0	0	557.76	560.67
19.530	574.30	572.86	568.84	565.41	560.41	556.55	0	0	559.39	562.21
20.527	575.27	573.84	569.79	566.34	561.31	557.31	0	0	560.89	563.75

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
41	7	TILE INSERT	0.111	.010	.010	9.354E 05	1.633E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.3	1298	39.44	40.03	30.00	-9.44	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0442	1.969	3801	3.922E-05	7.607E-08	1.960E 06	2.279E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.842	3.630	15.804	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
41	7	TILE INSERT	0.111	.010	.010	9.354E 05	1.633E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.3	1298	39.44	40.03	30.00	-9.44	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0442	1.969	3801	3.922E-05	7.607E-08	1.960E 06	2.279E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.842	3.630	15.804	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.651	1
13.238	2
18.340	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

NASA/RI OH69
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
42	7	TILE INSERT	0.111	.010	.010	8.368E 05	1.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.2	1289	29.67	30.01	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	G - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (F=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0393	1.746	3787	3.505E-05	7.570E-08	1.753E 06	2.143E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.180	3.625	30.145	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
7.20	.139	651.81	1.541E-03	.0719	1.932E-03	.0901	2.213E-03	.1032	1.873E-03	.0874
7.60	.147	672.57	1.931E-03	.0901	2.441E-03	.1139	2.814E-03	.1313	2.364E-03	.1103
8.00	.155	680.19	2.083E-03	.0972	2.643E-03	.1233	3.053E-03	.1424	2.557E-03	.1193
8.39	.162	683.03	2.141E-03	.0999	2.719E-03	.1269	3.144E-03	.1467	2.631E-03	.1227
8.78	.170	691.00	2.305E-03	.1075	2.939E-03	.1371	3.407E-03	.1589	2.841E-03	.1326
9.17	.177	694.78	2.384E-03	.1112	3.045E-03	.1421	3.535E-03	.1649	2.943E-03	.1373
9.56	.185	701.42	2.526E-03	.1178	3.236E-03	.1510	3.765E-03	.1757	3.126E-03	.1459
9.95	.192	711.92	2.755E-03	.1285	3.546E-03	.1655	4.144E-03	.1933	3.425E-03	.1598
10.33	.200	725.86	3.072E-03	.1433	3.984E-03	.1859	4.679E-03	.2183	3.842E-03	.1792
10.71	.207	736.39	3.319E-03	.1549	4.330E-03	.2020	5.107E-03	.2382	4.171E-03	.1946
11.10	.214	744.05	3.505E-03	.1635	4.591E-03	.2142	5.433E-03	.2535	4.421E-03	.2062
11.48	.222	748.30	3.610E-03	.1684	4.741E-03	.2212	5.621E-03	.2622	4.563E-03	.2129
11.85	.229	756.39	3.814E-03	.1779	5.033E-03	.2348	5.989E-03	.2794	4.840E-03	.2258
12.23	.236	763.47	3.997E-03	.1865	5.297E-03	.2471	6.326E-03	.2951	5.091E-03	.2375
12.60	.244	771.24	4.204E-03	.1961	5.596E-03	.2612	6.711E-03	.3131	5.376E-03	.2508
12.98	.251	779.75	4.438E-03	.2070	5.942E-03	.2772	7.156E-03	.3338	5.702E-03	.2660
13.35	.258	786.70	4.634E-03	.2162	6.235E-03	.2909	7.536E-03	.3516	5.978E-03	.2789
13.72	.265	791.14	4.763E-03	.2222	6.428E-03	.2999	7.789E-03	.3634	6.160E-03	.2874
14.08	.272	796.64	4.925E-03	.2298	6.673E-03	.3113	8.113E-03	.3785	6.391E-03	.2981
14.45	.279	801.32	5.036E-03	.2350	6.842E-03	.3192	8.336E-03	.3889	6.550E-03	.3056
14.81	.286	803.76	5.142E-03	.2399	7.003E-03	.3267	8.551E-03	.3989	6.701E-03	.3126

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/FI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
42	7	TILE INSERT	0.111	.010	.010	8.368E 05	1.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.2	1289	29.67	30.01	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0393	1.746	3787	3.505E-05	7.570E-08	1.753E 06	2.143E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
32.180	3.625	30.145	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.17	.293	802.37	5.099E-03	.2379	6.938E-03	.3237	8.463E-03	.3949	6.640E-03	.3098
15.53	.300	806.34	5.285E-03	.2466	7.223E-03	.3370	8.845E-03	.4126	6.908E-03	.3223
15.89	.307	811.38	5.381E-03	.2510	7.371E-03	.3439	9.043E-03	.4219	7.046E-03	.3287
16.25	.314	813.32	5.441E-03	.2539	7.465E-03	.3483	9.171E-03	.4279	7.135E-03	.3329
16.60	.321	816.16	5.531E-03	.2580	7.605E-03	.3548	9.361E-03	.4367	7.266E-03	.3390
16.96	.328	817.99	5.589E-03	.2607	7.696E-03	.3590	9.484E-03	.4425	7.351E-03	.3429
17.31	.335	817.74	5.581E-03	.2604	7.684E-03	.3585	9.468E-03	.4417	7.340E-03	.3424
17.66	.341	818.45	5.604E-03	.2614	7.720E-03	.3602	9.516E-03	.4440	7.373E-03	.3440
18.01	.348	818.39	5.602E-03	.2614	7.717E-03	.3600	9.512E-03	.4438	7.370E-03	.3439
18.35	.355	818.23	5.597E-03	.2611	7.709E-03	.3596	9.501E-03	.4433	7.363E-03	.3435
18.70	.361	817.62	5.578E-03	.2602	7.678E-03	.3582	9.460E-03	.4413	7.334E-03	.3422
19.04	.368	817.47	5.573E-03	.2600	7.671E-03	.3579	9.450E-03	.4409	7.327E-03	.3419
19.38	.375	817.63	5.578E-03	.2602	7.679E-03	.3583	9.461E-03	.4414	7.335E-03	.3422
19.72	.381	814.66	5.483E-03	.2558	7.531E-03	.3513	9.260E-03	.4320	7.196E-03	.3357
20.06	.388	814.70	5.485E-03	.2559	7.534E-03	.3515	9.263E-03	.4322	7.199E-03	.3359
20.39	.394	812.33	5.411E-03	.2524	7.418E-03	.3461	9.107E-03	.4249	7.090E-03	.3308
20.73	.401	818.22	5.597E-03	.2611	7.709E-03	.3597	9.502E-03	.4433	7.363E-03	.3435
21.06	.407	822.36	5.667E-03	.2644	7.818E-03	.3648	9.651E-03	.4502	7.465E-03	.3483
21.39	.413	822.25	5.726E-03	.2672	7.913E-03	.3692	9.780E-03	.4563	7.554E-03	.3524
21.72	.420	821.95	5.717E-03	.2667	7.897E-03	.3684	9.759E-03	.4553	7.534E-03	.3517
22.05	.426	820.44	5.668E-03	.2644	7.821E-03	.3649	9.654E-03	.4504	7.468E-03	.3484
22.37	.432	820.25	5.662E-03	.2642	7.812E-03	.3644	9.641E-03	.4498	7.459E-03	.3480

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

~~VON KARMAN GAS DYNAMICS FACILITY~~

50 INCH HYPERSONIC TUNNEL B

~~NASA/FI 0H69~~

V418-E9A

~~L = 4.311 FT~~

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	X	REX	REK
42	7	TILE INSERT	0.111	.010	.010	8.368E 05	1.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.2	1289	29.67	30.01	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0393	1.746	3787	3.505E-05	7.570E-08	1.753E 06	2.143E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
32.180	3.625	30.145	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
22.69	.439	819.50	5.638E-03	.2630	7.774E-03	.3627	9.590E-03	.4474	7.424E-03	.3463
23.02	.445	817.26	5.568E-03	.2598	7.663E-03	.3575	9.439E-03	.4404	7.320E-03	.3415
23.34	.451	818.18	5.596E-03	.2611	7.708E-03	.3596	9.500E-03	.4432	7.362E-03	.3435
23.65	.457	821.16	5.692E-03	.2655	7.858E-03	.3666	9.705E-03	.4528	7.503E-03	.3500
23.97	.463	822.02	5.719E-03	.2668	7.902E-03	.3686	9.764E-03	.4555	7.543E-03	.3519
24.29	.469	818.87	5.618E-03	.2621	7.742E-03	.3612	9.547E-03	.4454	7.394E-03	.3450
24.60	.475	816.39	5.540E-03	.2584	7.619E-03	.3554	9.379E-03	.4375	7.279E-03	.3396
24.91	.482	813.96	5.463E-03	.2549	7.499E-03	.3498	9.216E-03	.4300	7.166E-03	.3343
25.22	.487	810.84	5.365E-03	.2503	7.347E-03	.3427	9.010E-03	.4204	7.024E-03	.3277
25.53	.493	807.21	5.251E-03	.2450	7.171E-03	.3345	8.774E-03	.4093	6.858E-03	.3200
25.83	.499	797.16	4.943E-03	.2306	6.699E-03	.3125	8.147E-03	.3801	6.415E-03	.2993
26.14	.505	703.25	2.566E-03	.1197	3.291E-03	.1535	3.832E-03	.1788	3.179E-03	.1483

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH6S
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
42	7	TILE INSERT	0.111	.010	.010	8.368E 05	1.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.2	1289	29.67	30.01	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0393	1.746	3787	3.505E-05	7.570E-08	1.753E 06	2.143E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.180	3.625	30.145	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.590	547.51	546.13	544.26	543.40	543.11	542.76	0	0	530.60	531.09
2.587	550.52	549.09	546.48	545.08	543.93	543.32	0	0	531.05	531.63
3.583	552.86	551.37	548.36	546.54	544.84	543.90	0	0	531.72	532.34
4.580	554.89	553.32	550.00	547.84	545.69	544.49	0	0	532.39	533.10
5.576	556.64	555.04	551.49	549.12	546.57	545.05	0	0	532.93	533.64
6.573	558.27	556.55	552.86	550.29	547.39	545.81	0	0	533.42	534.22
7.569	559.77	558.00	554.17	551.43	548.21	546.19	0	0	533.95	534.71
8.566	561.16	559.34	555.39	552.48	549.00	546.75	0	0	534.54	535.52
9.563	562.50	560.64	556.55	553.53	549.79	547.31	0	0	535.25	536.19
10.559	563.77	561.86	557.69	554.55	550.58	547.92	0	0	535.88	536.77
11.556	564.95	562.99	558.76	555.53	551.37	548.48	0	0	536.37	537.26
12.552	566.08	564.11	559.80	556.49	552.16	549.09	0	0	536.81	537.84
13.549	567.14	565.18	560.82	557.42	552.91	549.70	0	0	537.48	538.46
14.545	568.21	566.19	561.77	558.32	553.67	550.29	0	0	538.15	539.13
15.542	569.25	567.20	562.73	559.25	554.43	550.93	0	0	538.69	539.76
16.539	570.22	568.16	563.68	560.09	555.19	551.57	0	0	539.22	540.29
17.535	571.14	569.10	564.58	560.93	555.94	552.19	0	0	539.71	540.74
18.532	572.13	570.05	565.47	561.80	556.70	552.83	0	0	540.34	541.45
19.528	573.04	570.94	566.34	562.64	557.42	553.44	0	0	541.05	542.07
20.525	573.93	571.83	567.20	563.45	558.18	554.11	0	0	541.63	542.70
21.521	574.78	572.69	568.04	564.29	558.90	554.78	0	0	542.12	543.23

NASA/RI OH60
V41d-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A2	7	TILE INSERT	0.111	.010	.010	8.368E 05	1.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.2	1289	29.67	30.01	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	G - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0393	1.746	3787	3.505E-05	7.570E-08	1.753E 06	2.143E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.180	3.625	30.145	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
23.518	575.67	573.55	569.87	565.07	559.69	555.45	0	0	542.61	543.67
23.515	576.50	574.38	570.71	565.87	560.38	556.09	0	0	543.14	544.34
24.511	577.33	575.19	570.48	566.65	561.11	556.78	0	0	543.85	545.01
25.508	578.13	575.93	571.25	567.40	561.86	557.42	0	0	544.43	545.54
26.504	578.98	576.82	572.12	568.18	562.58	558.12	0	0	544.92	546.12
27.501	579.73	577.59	572.86	568.96	563.31	558.79	0	0	545.45	546.61
28.497	580.50	578.36	573.67	569.73	564.03	559.45	0	0	545.98	547.14
29.494	581.30	579.13	574.41	570.45	564.75	560.12	0	0	546.69	547.80
30.312	581.92	579.76	575.04	571.08	565.33	560.70	0	0	547.09	548.25
30.491	582.04	579.90	575.16	571.20	565.47	560.79	0	0	547.32	548.47
31.487	582.81	580.64	575.93	571.98	566.16	561.48	0	0	547.76	548.91
32.484	583.58	581.41	576.67	572.72	566.91	562.18	0	0	548.25	549.44
33.480	584.29	582.12	577.39	573.44	567.60	562.87	0	0	548.78	549.98
34.477	585.02	582.86	578.13	574.15	568.30	563.54	0	0	549.40	550.60
35.473	585.79	583.60	578.87	574.87	569.13	564.17	0	0	550.06	551.30

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
62	7	TILE INSERT	0.111	.010	.010	8.368E 05	1.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.2	1289	29.67	30.01	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0393	1.746	3787	3.505E-05	7.570E-08	1.753E 06	2.143E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.180	3.625	30.145.	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.167	1
11.644	2
20.232	3
32.621	4

NASA/RI OHA9
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
43	7	TILE INSERT	0.111	.010	.010	8.437E 05	1.473E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.1	1286	39.51	40.04	30.00	-9.51	40.00	0

T - INF (DEG R)	P - INF (PSIA)	G - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0395	1.755	3783	3.530E-05	7.554E-08	1.768E 06	2.148E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.941	3.630	17.903	1000

X (IN)	X/L	TW (DEG R)	HI(TO)	HI(TO)/HREF	HI0.9TO)	HI.9TO)/HREF	HI.85TO)	HI.85TO)/HREF	HI .934TO)	HI .934TO)/HREF
7.69	.149	686.61	2.903E-03	.1351	3.696E-03	.1721	4.281E-03	.1993	3.381E-03	.1574
8.15	.158	730.51	4.164E-03	.1939	5.419E-03	.2523	6.380E-03	.2970	4.914E-03	.2287
8.60	.166	746.41	4.685E-03	.2172	6.125E-03	.2851	7.261E-03	.3380	5.534E-03	.2576
9.05	.175	758.72	5.071E-03	.2361	6.707E-03	.3122	7.997E-03	.3723	6.042E-03	.2812
9.49	.183	766.82	5.348E-03	.2489	7.109E-03	.3309	8.510E-03	.3961	6.391E-03	.2975
9.93	.192	774.12	5.604E-03	.2609	7.485E-03	.3484	8.994E-03	.4187	6.716E-03	.3126
10.37	.200	782.03	5.891E-03	.2742	7.909E-03	.3682	9.544E-03	.4443	7.081E-03	.3296
10.81	.209	788.36	6.127E-03	.2852	8.262E-03	.3846	1.001E-02	.4658	7.384E-03	.3437
11.24	.217	796.06	6.422E-03	.2990	8.708E-03	.4054	1.059E-02	.4932	7.765E-03	.3615
11.67	.226	798.48	6.517E-03	.3034	8.852E-03	.4121	1.078E-02	.5021	7.888E-03	.3672
12.10	.234	800.08	6.581E-03	.3063	8.950E-03	.4166	1.091E-02	.5081	7.971E-03	.3710
12.52	.242	801.18	6.625E-03	.3084	9.017E-03	.4197	1.100E-02	.5122	8.028E-03	.3737
12.94	.250	803.84	6.732E-03	.3134	9.180E-03	.4274	1.122E-02	.5224	8.167E-03	.3802
13.36	.258	807.48	6.880E-03	.3203	9.405E-03	.4380	1.153E-02	.5366	8.360E-03	.3892
13.78	.266	808.62	6.927E-03	.3225	9.481E-03	.4414	1.163E-02	.5412	8.422E-03	.3920
14.19	.274	809.51	6.964E-03	.3242	9.539E-03	.4441	1.170E-02	.5448	8.470E-03	.3943
14.60	.282	813.11	7.111E-03	.3310	9.768E-03	.4547	1.201E-02	.5592	8.663E-03	.4033
15.01	.290	813.87	7.143E-03	.3325	9.817E-03	.4570	1.208E-02	.5623	8.705E-03	.4052
15.41	.298	801.94	6.656E-03	.3098	9.064E-03	.4220	1.107E-02	.5152	8.068E-03	.3756
15.81	.306	812.45	7.085E-03	.3298	9.726E-03	.4528	1.196E-02	.5566	8.629E-03	.4017
16.21	.313	814.41	7.165E-03	.3336	9.852E-03	.4586	1.213E-02	.5645	8.734E-03	.4066

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	RLX	REK
43	7	TILE INSERT	0.111	.010	.010	8.437E 05	1.473E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.1	1286	39.51	40.04	30.00	-9.51	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0395	1.755	3783	3.530E-05	7.554E-08	1.768E 06	2.148E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
19.941	3.630	17.903	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	816.50	7.252E-03	.3376	9.988E-03	.4650	1.231E-02	.5731	8.849E-03	.4119
17.00	.329	817.79	7.306E-03	.3401	1.007E-02	.4689	1.243E-02	.5785	8.920E-03	.4152
17.39	.336	816.16	7.235E-03	.3368	9.962E-03	.4638	1.228E-02	.5714	8.827E-03	.4109
17.77	.344	817.30	7.286E-03	.3392	1.004E-02	.4674	1.238E-02	.5764	8.893E-03	.4140
18.16	.351	816.47	7.334E-03	.3414	1.012E-02	.4710	1.249E-02	.5813	8.958E-03	.4170
18.54	.358	816.16	7.321E-03	.3408	1.010E-02	.4701	1.246E-02	.5800	8.941E-03	.4162
18.92	.366	819.01	7.357E-03	.3425	1.015E-02	.4727	1.254E-02	.5836	8.988E-03	.4184
19.29	.373	818.13	7.320E-03	.3408	1.010E-02	.4700	1.246E-02	.5799	8.939E-03	.4161
19.66	.380	817.37	7.289E-03	.3393	1.005E-02	.4677	1.239E-02	.5768	8.898E-03	.4142
20.03	.387	815.43	7.209E-03	.3356	9.920E-03	.4618	1.222E-02	.5688	8.792E-03	.4093
20.40	.394	815.68	7.219E-03	.3361	9.936E-03	.4626	1.224E-02	.5698	8.806E-03	.4099
20.76	.401	808.94	6.942E-03	.3232	9.505E-03	.4425	1.166E-02	.5426	8.442E-03	.3930
21.12	.409	819.95	7.396E-03	.3443	1.021E-02	.4755	1.262E-02	.5875	9.039E-03	.4208
21.48	.415	823.08	7.529E-03	.3505	1.043E-02	.4853	1.291E-02	.6009	9.216E-03	.4290
21.84	.422	823.39	7.542E-03	.3511	1.045E-02	.4863	1.294E-02	.6023	9.233E-03	.4298
22.19	.429	822.86	7.520E-03	.3501	1.041E-02	.4847	1.289E-02	.6000	9.204E-03	.4285
22.54	.436	823.48	7.546E-03	.3513	1.045E-02	.4866	1.295E-02	.6027	9.239E-03	.4301
22.88	.442	822.59	7.509E-03	.3495	1.039E-02	.4838	1.286E-02	.5989	9.189E-03	.4278
23.23	.449	820.95	7.440E-03	.3463	1.028E-02	.4787	1.271E-02	.5919	9.097E-03	.4235
23.57	.456	821.77	7.475E-03	.3480	1.034E-02	.4813	1.279E-02	.5954	9.143E-03	.4256
23.91	.462	824.06	7.572E-03	.3525	1.049E-02	.4885	1.300E-02	.6053	9.272E-03	.4316
24.24	.469	821.77	7.475E-03	.3480	1.034E-02	.4813	1.279E-02	.5954	9.144E-03	.4257

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REY	REK
43	7	TILE INSERT	0.111	.010	.010	8.437E 05	1.473E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.1	1286	39.51	40.04	30.00	-9.51	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0395	1.755	3783	3.530E-05	7.554E-08	1.768E 06	2.148E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
19.941	3.630	17.903	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	816.96	7.274E-03	.3386	1.002E-02	.4665	1.236E-02	.5752	8.877E-03	.4133
24.90	.481	813.47	7.130E-03	.3319	9.796E-03	.4560	1.205E-02	.5609	8.688E-03	.4044
25.23	.488	813.57	7.134E-03	.3321	9.803E-03	.4563	1.206E-02	.5613	8.693E-03	.4047
25.55	.494	810.35	7.002E-03	.3260	9.597E-03	.4468	1.178E-02	.5484	8.520E-03	.3966
25.87	.500	806.93	6.619E-03	.3081	9.007E-03	.4193	1.099E-02	.5116	8.019E-03	.3733

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H49
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
43	7	TILE INSERT	0.111	.010	.010	8.437E 05	1.473E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.1	1286	39.51	40.04	30.00	-9.51	40.00	0

T - INF (DEG R)	P - INF (PSIA)	G - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0395	1.755	3783	3.530E-05	7.554E-08	1.768E 06	2.148E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
19.941	3.630	17.903	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.592	546.87	546.02	544.55	543.85	543.61	543.46	0	0	528.00	529.79
2.589	549.79	548.97	546.92	545.69	544.67	544.11	0	0	529.61	531.40
3.585	552.04	551.22	548.80	547.28	545.69	544.84	0	0	531.14	533.02
4.582	553.96	553.09	550.49	548.68	546.72	545.55	0	0	532.66	534.63
5.578	555.68	554.75	551.98	549.97	547.66	546.22	0	0	534.04	536.19
6.575	557.25	556.29	553.35	551.16	548.53	546.90	0	0	535.65	537.84
7.571	558.73	557.69	554.60	552.33	549.41	547.51	0	0	537.26	539.45
8.568	560.09	559.02	555.85	553.41	550.26	548.15	0	0	538.82	541.00
9.565	561.40	560.30	557.05	554.49	551.11	548.83	0	0	540.25	542.43
10.561	562.64	561.48	558.15	555.51	551.92	549.47	0	0	541.63	543.90
11.558	563.80	562.64	559.25	556.49	552.74	550.11	0	0	543.23	545.54
12.554	564.95	563.74	560.30	557.48	553.56	550.76	0	0	544.78	547.09
13.551	566.05	564.84	561.31	558.44	554.37	551.43	0	0	546.16	548.65
14.547	567.09	565.85	562.29	559.37	555.16	552.10	0	0	547.58	549.98
15.544	568.09	566.86	563.28	560.27	555.97	552.77	0	0	549.00	551.44
16.541	569.13	567.83	564.23	561.16	556.76	553.44	0	0	550.55	552.99
17.537	570.05	568.78	565.10	562.03	557.51	554.11	0	0	552.06	554.44
17.944	570.45	569.16	565.53	562.41	557.86	554.40	0	0	552.45	554.97
19.534	571.06	569.71	566.08	562.93	558.32	554.81	0	0	553.52	555.86
19.530	571.98	570.63	566.94	563.77	559.11	555.51	0	0	554.75	557.27
20.527	572.86	571.54	567.81	564.63	559.89	556.20	0	0	556.17	558.68

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
43	7	TILE INSERT	0.111	.010	.010	8.437E 05	1.473E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.1	1286	39.51	40.04	30.00	-9.51	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0395	1.755	3783	3.530E-05	7.554E-08	1.768E 06	2.148E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.941	3.630	17.903	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.523	573.78	572.41	568.67	565.44	560.64	556.90	0	0	557.71	560.01
22.520	574.58	573.29	569.53	566.42	560.38	557.60	0	0	559.12	561.68

NASA/RI OH69
V-1B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION, SIZE, X/L	GAP	K	REX	TWK
43	7	TILE INSERT	0.111	.010	.010	8.437E 05	1.473E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.1	1286	39.51	40.04	30.00	-9.51	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0395	1.755	3783	3.530E-05	7.554E-08	1.768E 06	2.148E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.941	3.630	17.903	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.405	1
12.015	2
20.394	3

NASA/RI OH69
V41d-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
44	7	TILE INSERT	0.111	.010	.010	7.140E 05	1.247E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.6	1295	29.72	30.01	30.00	.28	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0339	1.505	3795	3.005E-05	7.626E-08	1.496E 06	1.991E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
367.307	1.792	366.301	500

*** NO INFRARED DATA ***

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/FI OHAC

V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A4	7	TILE INSERT	0.111	.010	.010	7.140E 05	1.247E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.6	1295	29.72	30.01	30.00	.28	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0339	1.505	3796	3.005E-05	7.626E-08	1.496E 06	1.991E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
367.307	1.792	366.301	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.786	529.13	527.83	526.78	526.40	526.40	526.25	0	0	521.66	522.42
1.783	532.90	531.66	529.46	528.36	527.62	527.11	0	0	522.11	522.65
2.779	535.48	534.18	531.45	529.91	528.57	527.83	0	0	522.65	523.23
3.776	537.60	536.22	533.14	531.30	529.46	528.42	0	0	523.14	523.68
4.772	539.43	537.93	534.65	532.55	530.41	529.02	0	0	523.50	524.09

NASA/RI 0H69
M41B-E9A

AEDC (ARC,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
44	7	TILE INSERT	0.111	.010	.010	7.140E 05	1.247E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.6	1295	29.72	30.01	30.00	.28	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.046FT)	INITIAL TEMP (DEG F)
94.7	.0339	1.505	3796	3.005E-05	7.626E-08	1.496E 06	1.991E-02	81

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
367.307	1.792	366.301	500

*** NO PHOTOGRAPHS TAKEN ***

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
45	7	TILE INSERT	0.111	.010	.010	7.257E 05	1.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	323.7	1289	29.71	30.01	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0343	1.519	3788	3.048E-05	7.593E-08	1.520E 06	2.000E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.451	1.801	20.440	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
7.60	.147	638.01	1.598E-03	.0799	1.993E-03	.0997	2.274E-03	.1137	1.934E-03	.0967
8.00	.155	651.48	1.878E-03	.0939	2.354E-03	.1177	2.695E-03	.1348	2.282E-03	.1141
8.39	.162	653.57	1.923E-03	.0962	2.412E-03	.1206	2.764E-03	.1382	2.338E-03	.1169
8.78	.170	652.72	1.905E-03	.0953	2.389E-03	.1195	2.736E-03	.1368	2.316E-03	.1158
9.17	.177	650.60	1.860E-03	.0930	2.330E-03	.1165	2.667E-03	.1334	2.259E-03	.1130
9.56	.185	648.05	1.806E-03	.0903	2.260E-03	.1130	2.585E-03	.1293	2.192E-03	.1096
9.95	.192	644.29	1.727E-03	.0864	2.159E-03	.1080	2.467E-03	.1234	2.094E-03	.1047
10.33	.200	628.71	1.414E-03	.0707	1.757E-03	.0879	2.000E-03	.1000	1.706E-03	.0853
10.71	.207	642.04	1.681E-03	.0841	2.099E-03	.1050	2.397E-03	.1199	2.036E-03	.1018
11.10	.214	646.67	1.777E-03	.0889	2.223E-03	.1112	2.542E-03	.1271	2.156E-03	.1078
11.48	.222	647.81	1.801E-03	.0901	2.254E-03	.1127	2.578E-03	.1289	2.186E-03	.1093
11.85	.229	646.07	1.764E-03	.0882	2.207E-03	.1104	2.523E-03	.1262	2.140E-03	.1070
12.23	.236	644.39	1.729E-03	.0865	2.162E-03	.1081	2.470E-03	.1235	2.096E-03	.1048
12.60	.244	639.09	1.621E-03	.0811	2.022E-03	.1011	2.307E-03	.1154	1.961E-03	.0981
12.98	.251	641.85	1.677E-03	.0839	2.094E-03	.1047	2.392E-03	.1196	2.031E-03	.1016
13.35	.258	642.14	1.683E-03	.0842	2.102E-03	.1051	2.400E-03	.1200	2.039E-03	.1020
13.72	.265	640.69	1.653E-03	.0827	2.063E-03	.1032	2.355E-03	.1178	2.001E-03	.1001
14.08	.272	642.11	1.682E-03	.0841	2.101E-03	.1051	2.399E-03	.1200	2.038E-03	.1019
14.45	.279	642.01	1.681E-03	.0840	2.099E-03	.1050	2.397E-03	.1199	2.036E-03	.1018
14.81	.286	642.36	1.688E-03	.0844	2.108E-03	.1054	2.407E-03	.1204	2.044E-03	.1023
15.17	.293	639.35	1.626E-03	.0813	2.029E-03	.1015	2.315E-03	.1158	1.968E-03	.0984

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69

V41H-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	RCK
45	7	TILE INSERT	0.111	.010	.010	7.257E 05	1.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	323.7	1289	29.71	30.01	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0343	1.519	3788	3.048E-05	7.593E-08	1.520E 06	2.000E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
21.451	1.801	20.440	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.53	.300	633.04	1.499E-03	.0750	1.866E-03	.0933	2.126E-03	.1063	1.811E-03	.0906
15.89	.307	643.27	1.707E-03	.0853	2.132E-03	.1066	2.436E-03	.1218	2.068E-03	.1034
16.25	.314	643.43	1.710E-03	.0855	2.136E-03	.1068	2.441E-03	.1221	2.072E-03	.1036
16.60	.321	643.39	1.707E-03	.0854	2.133E-03	.1067	2.437E-03	.1219	2.069E-03	.1035
16.96	.328	642.61	1.693E-03	.0847	2.115E-03	.1058	2.415E-03	.1208	2.051E-03	.1026
17.31	.335	646.93	1.659E-03	.0830	2.070E-03	.1035	2.364E-03	.1182	2.008E-03	.1004
17.66	.341	642.55	1.692E-03	.0846	2.113E-03	.1057	2.413E-03	.1207	2.050E-03	.1025
18.01	.348	648.43	1.815E-03	.0907	2.271E-03	.1136	2.599E-03	.1300	2.203E-03	.1102
18.35	.355	654.01	1.934E-03	.0967	2.426E-03	.1213	2.780E-03	.1390	2.351E-03	.1176
18.70	.361	651.98	1.890E-03	.0945	2.369E-03	.1185	2.713E-03	.1357	2.297E-03	.1149
19.04	.368	661.14	2.091E-03	.1046	2.631E-03	.1316	3.021E-03	.1511	2.549E-03	.1275
19.38	.375	664.54	2.169E-03	.1085	2.733E-03	.1367	3.141E-03	.1571	2.648E-03	.1324
19.72	.381	667.95	2.250E-03	.1125	2.839E-03	.1420	3.267E-03	.1634	2.750E-03	.1375
20.06	.388	670.94	2.321E-03	.1161	2.932E-03	.1467	3.377E-03	.1689	2.839E-03	.1420
20.39	.394	680.91	2.562E-03	.1282	3.251E-03	.1626	3.750E-03	.1879	3.146E-03	.1573
20.73	.401	656.80	1.994E-03	.0997	2.505E-03	.1253	2.873E-03	.1437	2.428E-03	.1214
21.06	.407	682.78	2.609E-03	.1305	3.313E-03	.1657	3.829E-03	.1915	3.205E-03	.1603
21.39	.413	696.62	2.805E-03	.1403	3.575E-03	.1788	4.143E-03	.2072	3.457E-03	.1729
21.72	.420	697.61	2.984E-03	.1492	3.815E-03	.1908	4.432E-03	.2217	3.687E-03	.1844
22.05	.426	703.12	3.127E-03	.1564	4.009E-03	.2005	4.667E-03	.2334	3.873E-03	.1937
22.37	.432	709.39	3.294E-03	.1647	4.235E-03	.2118	4.941E-03	.2471	4.096E-03	.2045
22.69	.439	713.58	3.407E-03	.1704	4.389E-03	.2195	5.129E-03	.2565	4.237E-03	.2119

NASA/RT 0H60
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
45	7	TILE INSERT	0.111	.010	.010	7.257E 05	1.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	323.7	1209	29.71	30.01	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0343	1.519	3788	3.048E-05	7.593E-08	1.520E 06	2.000E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.451	1.801	20.440	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
23.02	.445	717.00	3.500E-03	.1750	4.517E-03	.2259	5.286E-03	.2643	4.360E-03	.2180
23.34	.451	720.38	3.593E-03	.1797	4.646E-03	.2323	5.443E-03	.2722	4.482E-03	.2242
23.65	.457	724.43	3.706E-03	.1853	4.802E-03	.2401	5.635E-03	.2818	4.631E-03	.2316
23.97	.463	727.98	3.806E-03	.1903	4.940E-03	.2471	5.806E-03	.2904	4.764E-03	.2382
24.29	.469	729.04	3.836E-03	.1918	4.982E-03	.2492	5.857E-03	.2929	4.804E-03	.2402
24.60	.475	729.41	3.846E-03	.1924	4.997E-03	.2499	5.876E-03	.2939	4.818E-03	.2410
24.91	.482	730.66	3.882E-03	.1941	5.047E-03	.2524	5.937E-03	.2969	4.865E-03	.2433
25.22	.487	732.62	3.938E-03	.1969	5.125E-03	.2563	6.034E-03	.3018	4.940E-03	.2471
25.53	.493	734.47	3.992E-03	.1996	5.200E-03	.2601	6.127E-03	.3064	5.011E-03	.2506
25.83	.499	725.89	3.747E-03	.1874	4.859E-03	.2430	5.705E-03	.2853	4.686E-03	.2344
26.14	.505	696.54	2.957E-03	.1479	3.779E-03	.1890	4.388E-03	.2195	3.652E-03	.1827

AEDC (AHO.INC.) ARNOLD AFS, TENNESSEE 12/03/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/RI OHIO

V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE- X/L	GAP	X	REX	REK
A5	7	TILE INSERT	0.111	.010	.010	7.257E 05	1.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	323.7	1289	29.71	30.01	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	U - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0343	1.519	3788	3.048E-05	7.593E-08	1.520E 06	2.000E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.451	1.801	20.440	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.790	533.38	532.19	531.03	530.62	530.53	530.41	0	0	525.80	526.29
1.787	537.10	535.84	533.67	532.58	531.81	531.30	0	0	526.14	526.56
2.783	539.67	538.37	535.65	534.12	532.74	531.98	0	0	526.65	527.10
3.780	541.76	540.32	537.34	535.48	533.61	532.55	0	0	527.10	527.68
4.776	543.55	542.09	538.81	536.72	534.50	533.14	0	0	527.50	528.09
5.773	545.20	543.67	540.20	537.87	535.27	533.70	0	0	527.73	528.45
6.769	546.66	545.08	541.46	538.96	536.04	534.26	0	0	528.22	528.89
7.766	548.04	546.43	542.47	540.02	536.81	534.77	0	0	528.76	529.39
8.763	549.35	547.66	543.82	541.02	537.57	535.33	0	0	529.25	529.93
9.759	550.55	548.86	544.90	541.99	538.34	535.89	0	0	529.61	530.28
10.756	551.72	550.00	545.96	542.96	539.08	536.45	0	0	529.97	530.64
11.752	552.86	551.04	546.95	543.90	539.82	537.01	0	0	530.37	531.14
12.749	553.90	552.10	547.95	544.76	540.55	537.55	0	0	530.91	531.63
13.745	554.95	553.12	548.86	545.66	541.29	538.16	0	0	531.36	532.03
14.742	555.91	554.05	549.82	546.51	542.02	538.73	0	0	531.67	532.43
15.739	556.87	555.01	550.73	547.36	542.76	539.37	0	0	532.03	532.79
16.735	557.80	555.91	551.57	548.18	543.43	539.96	0	0	532.48	533.28
17.732	558.70	556.81	552.45	549.00	544.17	540.55	0	0	533.06	533.82
18.728	559.57	557.69	553.29	549.82	544.90	541.17	0	0	533.42	534.18
19.725	560.41	558.53	554.14	550.61	545.61	541.79	0	0	533.64	534.49
20.479	561.08	559.16	554.72	551.19	546.13	542.26	0	0	534.13	534.94

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
45	7	TILE INSERT	0.111	.010	.010	7.257E 05	1.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	323.7	1289	29.71	30.01	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0343	1.519	3788	3.048E-05	7.593E-08	1.520E 06	2.000E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.451	1.801	20.440	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
20.721	561.28	559.34	554.92	551.37	546.31	542.41	0	0	534.09	534.94
21.718	562.09	560.18	555.71	552.13	547.01	543.05	0	0	534.63	535.38
22.715	562.90	560.96	556.49	552.88	547.71	543.67	0	0	535.07	535.83
23.711	563.68	561.77	557.28	553.64	548.42	544.31	0	0	535.43	536.19
24.708	564.46	562.52	558.03	554.40	549.12	544.99	0	0	535.79	536.64
25.704	565.24	563.28	558.75	555.07	550.23	545.58	0	0	536.05	536.95

AEDC (ARO, INC.) ARNOLD AFS, TENNESSEE 12/03/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/FI 0H69

V41H-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
45	7	TILE INSERT	0.111	.010	.010	7.257E 05	1.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	323.7	1289	29.71	30.01	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0343	1.519	3788	3.048E-05	7.593E-08	1.520E 06	2.000E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
21.451	1.801	20.440	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.489	1
12.493	2
20.171	3
23.885	4

NASA/RI 0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL H

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
46	7	TILE INSERT	0.111	.010	.010	7.151E 05	1.248E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.5	1294	39.57	40.01	30.00	-9.57	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0339	1.504	3794	3.008E-05	7.617E-08	1.498E 06	1.991E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.737	1.797	9.729	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	630.90	2.073E-03	.1041	2.576E-03	.1294	2.931E-03	.1473	2.379E-03	.1195
8.15	.158	679.31	3.602E-03	.1809	4.563E-03	.2292	5.265E-03	.2645	4.183E-03	.2101
8.60	.166	674.99	3.452E-03	.1734	4.365E-03	.2193	5.030E-03	.2527	4.004E-03	.2012
9.05	.175	658.26	2.890E-03	.1452	3.629E-03	.1823	4.161E-03	.2090	3.338E-03	.1677
9.49	.183	650.63	2.653E-03	.1333	3.321E-03	.1669	3.800E-03	.1909	3.059E-03	.1537
9.93	.192	646.37	2.524E-03	.1268	3.155E-03	.1585	3.605E-03	.1811	2.907E-03	.1461
10.37	.200	635.75	2.212E-03	.1111	2.753E-03	.1383	3.137E-03	.1576	2.541E-03	.1277
10.81	.209	643.21	2.430E-03	.1221	3.033E-03	.1524	3.463E-03	.1740	2.797E-03	.1405
11.24	.217	647.40	2.565E-03	.1284	3.195E-03	.1605	3.652E-03	.1835	2.944E-03	.1479
11.67	.226	649.94	2.632E-03	.1322	3.294E-03	.1655	3.768E-03	.1893	3.034E-03	.1524
12.10	.234	648.94	2.602E-03	.1307	3.255E-03	.1635	3.723E-03	.1870	2.999E-03	.1507
12.52	.242	647.34	2.554E-03	.1283	3.193E-03	.1604	3.650E-03	.1833	2.942E-03	.1478
12.94	.250	648.35	2.584E-03	.1298	3.232E-03	.1624	3.696E-03	.1857	2.978E-03	.1496
13.36	.258	652.72	2.718E-03	.1365	3.406E-03	.1711	3.899E-03	.1958	3.135E-03	.1575
13.78	.266	670.56	3.301E-03	.1658	4.166E-03	.2093	4.794E-03	.2408	3.825E-03	.1921
14.19	.274	670.13	3.286E-03	.1651	4.147E-03	.2083	4.772E-03	.2397	3.807E-03	.1913
14.60	.282	688.52	3.932E-03	.1975	5.002E-03	.2513	5.789E-03	.2908	4.576E-03	.2300
15.01	.290	695.88	4.201E-03	.2110	5.361E-03	.2693	6.221E-03	.3125	4.900E-03	.2462
15.41	.298	683.35	3.747E-03	.1882	4.755E-03	.2389	5.494E-03	.2760	4.356E-03	.2188
15.81	.306	706.98	4.618E-03	.2320	5.924E-03	.2976	6.900E-03	.3466	5.403E-03	.2714
16.21	.313	714.87	4.922E-03	.2472	6.339E-03	.3184	7.405E-03	.3720	5.773E-03	.2900

NASA/RI OH69
V418-592

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	RE	REK
46	7	TILE INSERT	0.111	.010	.010	7.151E 05	1.248E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.5	1294	39.57	40.01	30.00	-9.57	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0339	1.504	3794	3.008E-05	7.617E-08	1.498E 06	1.991E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
10.737	1.797	9.729	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.81	.321	721.48	5.183E-03	.2603	6.697E-03	.3364	7.843E-03	.3940	6.091E-03	.3060
17.00	.329	735.21	5.741E-03	.2884	7.472E-03	.3754	8.799E-03	.4420	6.776E-03	.3404
17.39	.336	735.03	5.734E-03	.2880	7.462E-03	.3748	8.786E-03	.4414	6.767E-03	.3399
17.77	.344	742.57	6.050E-03	.3039	7.907E-03	.3972	9.339E-03	.4692	7.158E-03	.3596
18.16	.351	747.99	6.283E-03	.3156	8.236E-03	.4137	9.751E-03	.4898	7.447E-03	.3741
18.54	.358	751.72	6.446E-03	.3238	8.467E-03	.4254	1.004E-02	.5045	7.650E-03	.3843
18.92	.366	753.51	6.524E-03	.3277	8.579E-03	.4310	1.018E-02	.5115	7.748E-03	.3892
19.29	.373	753.89	6.541E-03	.3286	8.604E-03	.4322	1.021E-02	.5131	7.769E-03	.3903
19.66	.380	753.57	6.527E-03	.3279	8.584E-03	.4312	1.019E-02	.5118	7.752E-03	.3894
20.03	.387	754.41	6.565E-03	.3298	8.637E-03	.4339	1.026E-02	.5152	7.798E-03	.3917
20.40	.394	745.01	6.156E-03	.3092	8.056E-03	.4047	9.526E-03	.4785	7.289E-03	.3662
20.76	.401	740.92	5.982E-03	.3005	7.810E-03	.3923	9.219E-03	.4631	7.073E-03	.3553
21.12	.408	757.41	6.699E-03	.3365	8.829E-03	.4435	1.050E-02	.5274	7.966E-03	.4002
21.48	.415	761.66	6.888E-03	.3460	9.101E-03	.4572	1.084E-02	.5447	8.203E-03	.4121
21.84	.422	762.61	6.934E-03	.3483	9.167E-03	.4605	1.093E-02	.5489	8.261E-03	.4150
22.19	.429	762.73	6.939E-03	.3486	9.175E-03	.4609	1.094E-02	.5494	8.267E-03	.4153
22.54	.436	762.27	6.919E-03	.3476	9.146E-03	.4594	1.090E-02	.5475	8.242E-03	.4140
22.88	.442	761.49	6.883E-03	.3458	9.095E-03	.4569	1.083E-02	.5443	8.197E-03	.4118
23.23	.449	759.21	6.781E-03	.3406	8.946E-03	.4494	1.065E-02	.5348	8.068E-03	.4053
23.57	.456	759.40	6.790E-03	.3411	8.959E-03	.4501	1.066E-02	.5357	8.080E-03	.4059
23.91	.462	759.20	6.780E-03	.3406	8.946E-03	.4494	1.065E-02	.5348	8.068E-03	.4053
24.24	.469	759.00	6.772E-03	.3402	8.934E-03	.4488	1.063E-02	.5340	8.057E-03	.4048

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
46	7	TILE INSERT	0.111	.010	.010	7.151E 05	1.248E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.5	1294	39.57	40.01	30.00	-9.57	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0339	1.504	3794	3.008E-05	7.617E-08	1.498E 06	1.991E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.737	1.797	9.729	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	756.21	6.648E-03	.3339	8.755E-03	.4398	1.040E-02	.5227	7.902E-03	.3969
24.90	.481	754.42	6.568E-03	.3299	8.642E-03	.4341	1.026E-02	.5155	7.802E-03	.3920
25.23	.488	753.99	6.549E-03	.3290	8.615E-03	.4328	1.023E-02	.5138	7.774E-03	.3908
25.55	.494	754.92	6.591E-03	.3311	8.674E-03	.4357	1.030E-02	.5175	7.831E-03	.3934
25.87	.500	719.16	5.095E-03	.2559	6.576E-03	.3303	7.694E-03	.3865	5.983E-03	.3006

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REA	RER
46	7	TILE INSERT	0.111	.010	.010	7.151E 05	1.248E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.5	1294	39.57	40.01	30.00	-9.57	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0339	1.504	3794	3.008E-05	7.617E-08	1.498E 06	1.991E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.737	1.797	9.729	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.788	542.76	541.73	540.93	540.55	540.61	540.52	0	0	529.84	531.09
1.785	546.37	545.58	543.79	542.82	542.11	541.70	0	0	530.96	532.08
2.781	548.77	548.01	545.84	544.52	543.29	542.52	0	0	532.30	533.64
3.778	550.73	549.94	547.51	545.96	544.23	543.23	0	0	533.73	535.16
4.774	552.42	551.57	549.00	547.22	545.17	543.90	0	0	534.98	536.64
5.771	553.96	553.06	550.35	548.39	546.05	544.58	0	0	536.28	537.93
6.767	555.39	554.43	551.60	549.50	546.90	545.22	0	0	537.62	539.22
7.764	556.70	555.74	552.77	550.55	547.69	545.81	0	0	538.95	540.74
8.761	557.98	556.93	553.90	551.57	548.56	546.43	0	0	540.34	542.16
9.757	559.16	558.12	554.95	552.54	549.29	547.04	0	0	541.58	543.36
9.771	559.16	558.12	554.98	552.56	549.29	547.07	0	0	541.54	543.32
10.754	560.30	559.22	556.03	553.50	550.09	547.66	0	0	542.78	544.70
11.750	561.37	560.27	557.02	554.40	550.81	548.27	0	0	544.16	545.94
12.747	562.41	561.31	558.00	555.33	551.60	548.89	0	0	545.50	547.49
13.743	563.42	562.29	558.93	556.20	552.36	549.53	0	0	546.83	548.69
14.740	564.40	563.25	559.89	557.19	553.15	550.20	0	0	547.98	549.89

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
46	7	TILE INSERT	0.111	.010	.010	7.151E 05	1.248E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.5	1294	39.57	40.01	30.00	-9.57	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0339	1.504	3794	3.008E-05	7.617E-08	1.498E 06	1.991E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.737	1.797	9.729	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.403	1
8.130	2
10.786	3

NASA/RI OH60
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
47	7	TILE INSERT	0.111	.010	.010	6.026E 05	1.052E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.5	1279	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0282	1.249	3771	2.526E-05	7.546E-08	1.262E 06	1.810E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.576	1.792	38.570	500

X (IN)	X/L	TW (DEG F)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
7.60	.147	651.65	1.381E-03	.0763	1.735E-03	.0959	1.990E-03	.1100	1.682E-03	.0929
8.10	.155	670.69	1.701E-03	.0940	2.154E-03	.1190	2.485E-03	.1373	2.045E-03	.1152
8.39	.162	675.72	1.809E-03	.0999	2.297E-03	.1269	2.655E-03	.1467	2.222E-03	.1228
8.78	.170	677.19	1.817E-03	.1004	2.308E-03	.1275	2.668E-03	.1474	2.233E-03	.1234
9.17	.177	675.23	1.800E-03	.0995	2.285E-03	.1263	2.641E-03	.1459	2.211E-03	.1222
9.56	.185	673.36	1.749E-03	.0966	2.217E-03	.1225	2.560E-03	.1415	2.146E-03	.1186
9.95	.192	671.83	1.704E-03	.0941	2.158E-03	.1192	2.489E-03	.1376	2.089E-03	.1154
10.33	.200	666.16	1.519E-03	.0839	1.915E-03	.1058	2.202E-03	.1216	1.855E-03	.1025
10.72	.207	661.83	1.547E-03	.0855	1.952E-03	.1079	2.246E-03	.1241	1.891E-03	.1045
11.10	.214	668.93	1.671E-03	.0923	2.114E-03	.1168	2.437E-03	.1347	2.046E-03	.1131
11.48	.222	671.02	1.707E-03	.0943	2.162E-03	.1195	2.495E-03	.1378	2.093E-03	.1156
11.85	.229	667.33	1.642E-03	.0907	2.077E-03	.1148	2.393E-03	.1322	2.011E-03	.1111
12.23	.236	665.51	1.681E-03	.0929	2.127E-03	.1175	2.453E-03	.1356	2.059E-03	.1138
12.60	.244	665.51	1.628E-03	.0900	2.058E-03	.1137	2.371E-03	.1310	1.993E-03	.1101
12.98	.251	663.19	1.571E-03	.0868	1.983E-03	.1096	2.282E-03	.1261	1.920E-03	.1061
13.35	.258	663.32	1.573E-03	.0869	1.986E-03	.1097	2.285E-03	.1263	1.923E-03	.1063
13.72	.265	664.33	1.591E-03	.0879	2.009E-03	.1111	2.313E-03	.1278	1.945E-03	.1075
14.10	.272	663.75	1.581E-03	.0873	1.996E-03	.1103	2.297E-03	.1269	1.932E-03	.1068
14.45	.279	661.83	1.547E-03	.0855	1.952E-03	.1079	2.246E-03	.1241	1.891E-03	.1045
14.81	.286	665.69	1.614E-03	.0892	2.038E-03	.1127	2.349E-03	.1298	1.975E-03	.1091
15.17	.293	664.18	1.596E-03	.0877	2.005E-03	.1108	2.309E-03	.1276	1.942E-03	.1073

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69

V41B-E7A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REL	REK
47	7	TILE INSERT	0.111	.010	.010	6.026E 05	1.052E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.5	1279	29.70	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0282	1.249	3771	2.526E-05	7.546E-08	1.262E 06	1.810E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
39.576	1.792	38.570	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.53	.300	650.61	1.355E-03	.0754	1.714E-03	.0947	1.965E-03	.1086	1.661E-03	.0918
15.89	.307	663.12	1.664E-03	.0886	2.027E-03	.1120	2.334E-03	.1289	1.962E-03	.1084
16.25	.314	666.34	1.855E-03	.0914	2.043E-03	.1157	2.413E-03	.1333	2.027E-03	.1120
16.60	.321	666.44	1.827E-03	.0899	2.057E-03	.1136	2.370E-03	.1309	1.991E-03	.1100
16.96	.328	663.63	1.578E-03	.0872	1.992E-03	.1101	2.293E-03	.1267	1.929E-03	.1066
17.31	.335	661.93	1.549E-03	.0856	1.955E-03	.1080	2.249E-03	.1242	1.893E-03	.1046
17.66	.341	662.01	1.551E-03	.0857	1.956E-03	.1081	2.251E-03	.1244	1.895E-03	.1047
18.01	.348	663.73	1.540E-03	.0854	1.950E-03	.1077	2.243E-03	.1239	1.889E-03	.1044
18.35	.355	662.81	1.564E-03	.0864	1.974E-03	.1091	2.272E-03	.1255	1.912E-03	.1056
18.70	.361	666.26	1.624E-03	.0897	2.053E-03	.1134	2.365E-03	.1307	1.988E-03	.1098
19.04	.368	667.23	1.641E-03	.0907	2.075E-03	.1146	2.391E-03	.1321	2.009E-03	.1110
19.38	.375	666.26	1.624E-03	.0897	2.053E-03	.1134	2.365E-03	.1307	1.988E-03	.1098
19.72	.381	666.93	1.636E-03	.0904	2.068E-03	.1143	2.383E-03	.1317	2.002E-03	.1106
20.06	.388	668.72	1.615E-03	.0892	2.040E-03	.1127	2.350E-03	.1299	1.976E-03	.1092
20.39	.394	669.29	1.607E-03	.0888	2.031E-03	.1122	2.339E-03	.1292	1.966E-03	.1086
20.73	.401	646.62	1.303E-03	.0720	1.633E-03	.0903	1.871E-03	.1034	1.584E-03	.0875
21.06	.407	661.62	1.544E-03	.0853	1.940E-03	.1076	2.241E-03	.1238	1.887E-03	.1042
21.39	.413	664.56	1.595E-03	.0881	2.014E-03	.1113	2.319E-03	.1281	1.950E-03	.1078
21.72	.420	666.39	1.626E-03	.0899	2.056E-03	.1136	2.368E-03	.1309	1.991E-03	.1100
22.05	.426	667.79	1.651E-03	.0912	2.088E-03	.1154	2.407E-03	.1330	2.022E-03	.1117
22.37	.432	669.73	1.685E-03	.0931	2.133E-03	.1178	2.460E-03	.1359	2.065E-03	.1141
22.69	.439	670.78	1.704E-03	.0941	2.157E-03	.1192	2.489E-03	.1375	2.088E-03	.1154

NASA/RI OH69
V41B-E9A

AEDC (ARO, INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
47	7	TILE INSERT	0.111	.010	.010	6.026E 05	1.052E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.5	1279	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0282	1.249	3771	2.526E-05	7.546E-08	1.262E 06	1.810E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.576	1.792	38.570	500

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
23.02	.445	671.47	1.716E-03	.0948	2.173E-03	.1201	2.508E-03	.1386	2.104E-03	.1162
23.34	.451	671.76	1.720E-03	.0950	2.179E-03	.1204	2.515E-03	.1389	2.109E-03	.1165
23.65	.457	671.42	1.715E-03	.0948	2.172E-03	.1200	2.507E-03	.1385	2.103E-03	.1162
23.97	.463	670.97	1.707E-03	.0943	2.162E-03	.1194	2.494E-03	.1378	2.093E-03	.1156
24.29	.469	671.44	1.715E-03	.0948	2.173E-03	.1201	2.507E-03	.1385	2.103E-03	.1162
24.60	.475	669.68	1.684E-03	.0931	2.132E-03	.1178	2.459E-03	.1358	2.064E-03	.1140
24.91	.482	666.49	1.628E-03	.0900	2.058E-03	.1137	2.371E-03	.1310	1.993E-03	.1101
25.22	.487	665.07	1.604E-03	.0886	2.026E-03	.1119	2.333E-03	.1289	1.962E-03	.1084
25.53	.493	662.50	1.559E-03	.0862	1.968E-03	.1087	2.264E-03	.1251	1.906E-03	.1053
25.83	.499	661.72	1.546E-03	.0854	1.950E-03	.1078	2.244E-03	.1240	1.889E-03	.1044
26.14	.505	640.94	1.216E-03	.0672	1.521E-03	.0840	1.739E-03	.0961	1.475E-03	.0815

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/FI-OMAG

V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION *-*	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
47	7	TILE INSERT	0.111	.010	.010	6.026E 05	1.052E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.5	1279	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0282	1.249	3771	2.526E-05	7.546E-08	1.262E 06	1.810E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
39.576	1.792	38.570	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.786	542.02	540.79	539.87	539.52	539.67	539.37	0	0	529.97	530.33
1.783	545.36	544.17	542.20	541.29	540.64	540.20	0	0	530.24	530.46
2.779	547.60	546.40	543.96	542.64	541.49	540.76	0	0	530.46	530.82
3.776	549.41	548.12	545.46	543.82	542.26	541.29	0	0	530.64	530.87
4.772	551.02	549.70	546.81	544.93	543.02	541.82	0	0	530.73	530.96
5.769	552.48	551.06	548.01	545.96	543.73	542.32	0	0	530.73	531.14
6.765	553.79	552.33	549.15	546.92	544.40	542.82	0	0	531.05	531.31
7.762	555.01	553.50	550.20	547.86	545.08	543.26	0	0	531.22	531.54
8.759	556.17	554.60	551.22	548.74	545.75	543.76	0	0	531.31	531.76
9.755	557.22	555.65	552.16	549.62	546.40	544.26	0	0	531.45	531.76
10.752	558.27	556.67	553.12	550.40	547.07	544.76	0	0	531.49	531.94
11.748	559.25	557.60	553.96	551.28	547.74	545.25	0	0	531.81	532.17
12.745	560.21	558.53	554.87	552.01	548.39	545.75	0	0	532.12	532.43
13.741	561.08	559.43	555.71	552.86	549.03	546.28	0	0	532.12	532.43
14.738	561.95	560.39	556.52	553.61	549.70	546.81	0	0	532.12	532.57
15.735	562.78	561.08	557.31	554.34	550.32	547.31	0	0	532.34	532.75
16.731	563.65	561.92	558.06	555.10	550.96	547.83	0	0	532.66	533.06
17.728	564.43	562.70	558.85	555.83	551.60	548.39	0	0	532.75	533.19
18.724	565.21	563.44	559.57	556.52	552.21	548.94	0	0	532.84	533.28
19.721	565.96	564.23	560.32	557.22	552.86	549.47	0	0	532.93	533.37
20.717	566.74	564.95	561.02	557.92	553.47	550.03	0	0	533.15	533.51

NASA/RI OH60
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
47	7	TILE INSERT	0.111	.010	.010	6.026E 05	1.052E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.5	1279	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT=1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0292	1.249	3771	2.526E-05	7.546E-08	1.262E 06	1.810E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.576	1.792	38.570	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.714	567.43	565.67	561.71	558.56	554.09	550.58	0	0	533.42	533.82
22.711	568.18	566.37	562.41	559.25	554.72	551.13	0	0	533.51	533.91
23.707	568.84	567.09	563.10	559.92	555.33	551.69	0	0	533.60	534.04
24.704	569.56	567.75	563.77	560.59	555.97	552.27	0	0	533.69	534.13
25.700	570.22	568.44	564.46	561.22	556.55	552.83	0	0	533.91	534.36
26.697	570.91	569.13	565.10	561.89	557.12	553.38	0	0	534.22	534.67
27.693	571.57	569.76	565.76	562.50	557.80	553.96	0	0	534.22	534.67
28.690	572.26	570.62	566.42	563.16	558.41	554.55	0	0	534.34	534.80
29.687	572.89	571.06	567.06	563.77	558.99	555.10	0	0	534.49	534.94
30.683	573.55	571.72	567.66	564.40	559.60	555.68	0	0	534.67	535.21
31.680	574.18	572.38	568.30	565.04	560.21	556.23	0	0	534.94	535.43
32.676	574.81	573.01	568.93	565.64	560.82	556.81	0	0	534.98	535.47
33.673	575.41	573.58	569.50	566.25	561.40	557.42	0	0	535.12	535.47
34.669	576.04	574.21	570.17	566.88	562.00	557.98	0	0	535.26	535.74
35.666	576.67	574.84	570.74	567.46	562.58	558.53	0	0	535.47	535.92
36.663	577.30	575.44	571.37	568.07	563.19	559.11	0	0	535.61	536.10
37.659	577.90	576.04	572.00	568.70	563.77	559.69	0	0	535.70	536.10
38.450	578.39	576.53	572.46	569.13	564.23	560.12	0	0	535.92	536.41
39.656	578.50	576.65	572.61	569.27	564.37	560.27	0	0	535.83	536.32
39.652	579.07	577.25	573.21	569.85	564.95	560.82	0	0	536.05	536.55
40.649	579.70	577.97	573.78	570.45	565.53	561.40	0	0	536.23	536.72
41.645	580.30	578.45	574.38	571.08	566.13	561.97	0	0	536.32	536.81

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

~~VON KARMAN GAS DYNAMICS FACILITY~~

50 INCH HYPERSONIC TUNNEL B

~~NASA/RI OH69~~

V41B-E9A

~~L = 4.311 FT~~

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
67	7	TILE INSERT	0.111	.010	.010	6.026E 05	1.052E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.5	1279	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	RREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0242	1.249	3771	2.526E-05	7.546E-08	1.262E 06	1.810E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
39.576	1.792	38.570	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/FI 0H69
V41H-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
47	7	TILE INSERT	0.111	.010	.010	6.026E 05	1.052E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.5	1279	29.76	30.00	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
43.7	.0282	1.249	3771	2.526E-05	7.546E-08	1.262E 06	1.810E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.576	1.792	38.570	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
34.171	1
41.915	2

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V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
48	7	TILE INSERT	0.111	.010	.010	5.970E 05	1.042E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.7	1284	39.65	40.01	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.1	.0281	1.245	3779	2.508E-05	7.578E-08	1.251E 06	1.808E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.481	1.787	15.478	500

X (IN)	X/L	TW (DEG R)	HT(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	570.49	5.443E-04	.0301	6.637E-04	.0367	7.456E-04	.0412	6.176E-04	.0341
8.15	.158	654.41	2.397E-03	.1326	3.014E-03	.1667	3.459E-03	.1913	2.771E-03	.1532
8.60	.166	665.38	2.633E-03	.1456	3.323E-03	.1838	3.824E-03	.2115	3.051E-03	.1687
9.05	.175	660.53	2.504E-03	.1385	3.154E-03	.1744	3.624E-03	.2004	2.898E-03	.1602
9.49	.183	658.38	2.448E-03	.1354	3.080E-03	.1703	3.537E-03	.1956	2.831E-03	.1565
9.93	.192	656.98	2.412E-03	.1334	3.033E-03	.1677	3.482E-03	.1925	2.789E-03	.1542
10.37	.200	652.09	2.288E-03	.1265	2.872E-03	.1588	3.292E-03	.1820	2.642E-03	.1461
10.81	.209	642.73	2.058E-03	.1138	2.573E-03	.1423	2.942E-03	.1627	2.371E-03	.1311
11.24	.217	656.22	2.343E-03	.1323	3.008E-03	.1663	3.452E-03	.1909	2.766E-03	.1529
11.67	.226	657.87	2.435E-03	.1347	3.063E-03	.1694	3.517E-03	.1945	2.816E-03	.1557
12.10	.234	657.09	2.415E-03	.1335	3.037E-03	.1679	3.486E-03	.1928	2.792E-03	.1544
12.52	.242	652.28	2.291E-03	.1267	2.876E-03	.1590	3.296E-03	.1823	2.646E-03	.1463
12.94	.250	650.68	2.254E-03	.1246	2.827E-03	.1563	3.238E-03	.1791	2.601E-03	.1438
13.36	.258	649.86	2.233E-03	.1235	2.800E-03	.1549	3.208E-03	.1774	2.577E-03	.1425
13.78	.266	653.39	2.246E-03	.1242	2.817E-03	.1558	3.228E-03	.1785	2.593E-03	.1434
14.19	.274	650.59	2.251E-03	.1245	2.824E-03	.1562	3.235E-03	.1789	2.599E-03	.1437
14.60	.282	653.25	2.318E-03	.1282	2.910E-03	.1609	3.337E-03	.1845	2.677E-03	.1480
15.01	.290	654.98	2.362E-03	.1306	2.968E-03	.1641	3.404E-03	.1882	2.729E-03	.1509
15.41	.298	649.66	2.229E-03	.1232	2.794E-03	.1545	3.200E-03	.1770	2.572E-03	.1422
15.81	.306	653.89	2.334E-03	.1291	2.932E-03	.1621	3.362E-03	.1859	2.697E-03	.1491
16.21	.313	660.29	2.499E-03	.1382	3.146E-03	.1740	3.615E-03	.1999	2.891E-03	.1599

NASA/RI 0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

PAG

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	RE
48	7	TILE INSERT	0.111	.010	.010	5.970E 05	1.042E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.7	1284	39.65	40.01	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.1	.0281	1.245	3779	2.508E-05	7.578E-08	1.251E 06	1.808E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.481	1.787	15.478	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	662.92	2.570E-03	.1421	3.239E-03	.1791	3.725E-03	.2060	2.975E-03	.1645
17.00	.329	666.07	2.656E-03	.1469	3.352E-03	.1854	3.859E-03	.2134	3.077E-03	.1702
17.39	.336	671.50	2.778E-03	.1536	3.514E-03	.1943	4.050E-03	.2239	3.223E-03	.1782
17.77	.344	674.40	3.001E-03	.1659	3.808E-03	.2106	4.401E-03	.2433	3.489E-03	.1929
18.16	.351	687.70	3.270E-03	.1808	4.167E-03	.2304	4.830E-03	.2671	3.811E-03	.2107
18.54	.358	696.72	3.599E-03	.1990	4.610E-03	.2549	5.364E-03	.2966	4.207E-03	.2326
18.92	.365	708.21	3.890E-03	.2151	5.007E-03	.2769	5.846E-03	.3233	4.561E-03	.2522
19.29	.373	716.72	4.159E-03	.2300	5.376E-03	.2973	6.297E-03	.3482	4.885E-03	.2703
19.66	.380	721.61	4.317E-03	.2387	5.594E-03	.3093	6.565E-03	.3631	5.082E-03	.2810
20.03	.387	727.29	4.503E-03	.2490	5.853E-03	.3236	6.885E-03	.3807	5.310E-03	.2936
20.40	.394	732.96	4.692E-03	.2594	6.117E-03	.3383	7.213E-03	.3989	5.543E-03	.3065
20.76	.401	712.57	4.028E-03	.2227	5.195E-03	.2873	6.076E-03	.3360	4.728E-03	.2615
21.12	.408	742.84	5.029E-03	.2781	6.594E-03	.3646	7.808E-03	.4318	5.962E-03	.3297
21.48	.415	752.21	5.359E-03	.2963	7.065E-03	.3907	8.403E-03	.4647	6.374E-03	.3525
21.84	.422	761.24	5.686E-03	.3144	7.538E-03	.4168	9.004E-03	.4979	6.785E-03	.3752
22.19	.429	760.59	5.664E-03	.3132	7.505E-03	.4150	8.962E-03	.4956	6.757E-03	.3736
22.54	.436	765.47	5.883E-03	.3253	7.825E-03	.4327	9.371E-03	.5182	7.034E-03	.3890
22.88	.442	762.98	5.753E-03	.3181	7.634E-03	.4221	9.127E-03	.5047	6.869E-03	.3798
23.23	.449	763.02	5.754E-03	.3182	7.637E-03	.4223	9.130E-03	.5049	6.871E-03	.3799
23.57	.456	762.75	5.744E-03	.3176	7.622E-03	.4215	9.112E-03	.5038	6.858E-03	.3792
23.91	.462	763.43	5.770E-03	.3190	7.659E-03	.4235	9.159E-03	.5064	6.890E-03	.3810
24.24	.469	764.72	5.818E-03	.3217	7.729E-03	.4274	9.248E-03	.5114	6.951E-03	.3844

NASA/RI 0H69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL H

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
48	7	TILE INSERT	0.111	.010	.010	5.970E 05	1.042E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.7	1284	39.65	40.01	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.1	.0281	1.245	3779	2.508E-05	7.578E-08	1.251E 06	1.808E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.481	1.787	15.478	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	764.06	5.793E-03	.3203	7.693E-03	.4254	9.203E-03	.5089	6.920E-03	.3827
24.90	.481	761.64	5.704E-03	.3154	7.563E-03	.4182	9.036E-03	.4997	6.807E-03	.3764
25.23	.488	762.06	5.719E-03	.3163	7.586E-03	.4195	9.065E-03	.5013	6.827E-03	.3775
25.55	.494	762.05	5.719E-03	.3162	7.585E-03	.4194	9.064E-03	.5012	6.826E-03	.3775
25.87	.500	752.92	5.386E-03	.2978	7.104E-03	.3928	8.452E-03	.4674	6.408E-03	.3543

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI JH49
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
48	7	TILE INSERT	0.111	.010	.010	5.970E 05	1.042E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.7	1284	39.65	40.01	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.1	.0291	1.245	3779	2.508E-05	7.578E-08	1.251E 06	1.808E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.481	1.787	15.478	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.784	537.16	536.22	535.51	535.15	535.24	535.15	0	0	522.65	524.22
1.781	540.40	539.70	538.05	537.25	536.63	536.25	0	0	523.91	524.99
2.777	542.58	541.91	539.93	538.75	537.66	537.01	0	0	524.94	526.11
3.774	544.34	543.64	541.46	540.05	538.61	537.69	0	0	525.98	527.19
4.770	545.93	545.14	542.82	541.20	539.37	538.34	0	0	527.05	528.45
5.767	547.28	546.48	543.99	542.26	540.20	538.90	0	0	528.31	529.70
6.763	548.59	547.74	545.17	543.29	540.96	539.49	0	0	529.39	530.82
7.760	549.79	548.91	546.22	544.23	541.70	540.05	0	0	530.46	531.90
8.757	550.93	550.00	547.28	545.17	542.43	540.61	0	0	531.49	532.93
9.753	552.01	551.05	548.21	546.07	543.14	541.17	0	0	532.57	534.09
10.750	553.06	552.07	549.15	546.90	543.87	541.73	0	0	533.82	535.38
11.746	553.99	553.03	550.08	547.74	544.55	542.26	0	0	534.80	536.37
12.743	554.98	553.06	550.99	548.56	545.25	542.85	0	0	535.74	537.44
13.739	555.88	554.87	551.84	549.38	545.96	543.43	0	0	536.90	538.55
14.736	556.78	555.74	552.68	550.17	546.60	544.02	0	0	538.02	539.67
15.458	557.42	556.35	553.26	550.76	547.13	544.43	0	0	538.69	540.29
15.733	557.66	556.58	553.50	550.96	547.31	544.58	0	0	539.09	540.83
16.729	558.50	557.42	554.28	551.72	548.01	545.17	0	0	540.11	541.81
17.726	559.31	558.21	555.10	552.45	548.65	545.75	0	0	541.05	542.70
18.722	560.09	559.02	555.85	553.21	549.76	546.34	0	0	542.16	543.90

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	RFX	REK
48	7	TILE INSERT	0.111	.010	.010	5.970E 05	1.042E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	263.7	1284	39.65	40.01	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.1	.0281	1.245	3779	2.508E-05	7.578E-08	1.251E 06	1.808E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.481	1.787	15.478	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.303	1
8.848	2
13.959	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

NASA/FI 0460
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
50	7	TILE INSERT	0.111	.010	.010	1.298E 06	2.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	612.2	1329	29.46	30.01	30.00	.54	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.5	.0632	2.825	3846	5.495E-05	7.771E-08	2.720E 06	2.741E-02	79

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
13.657	1.792	12.651	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.108	582.03	7.701E-04	.0281	9.368E-04	.0342	1.050E-03	.0383	9.122E-04	.0333
7.20	.139	634.07	1.901E-03	.0694	2.350E-03	.0858	2.605E-03	.0972	2.283E-03	.0833
7.60	.147	723.65	4.478E-03	.1634	5.737E-03	.2093	6.677E-03	.2436	5.544E-03	.2023
8.00	.155	745.90	5.237E-03	.1911	6.783E-03	.2475	7.957E-03	.2903	6.542E-03	.2387
8.39	.162	764.61	5.916E-03	.2158	7.738E-03	.2823	9.147E-03	.3337	7.453E-03	.2719
8.78	.170	769.06	6.084E-03	.2220	7.976E-03	.2911	9.446E-03	.3447	7.686E-03	.2802
9.17	.177	774.82	6.305E-03	.2301	8.295E-03	.3026	9.848E-03	.3593	7.982E-03	.2912
9.56	.185	779.58	6.492E-03	.2369	8.563E-03	.3124	1.019E-02	.3717	8.236E-03	.3005
9.95	.192	784.82	6.701E-03	.2445	8.866E-03	.3235	1.058E-02	.3858	8.524E-03	.3110
10.33	.200	789.26	6.598E-03	.2407	8.717E-03	.3181	1.038E-02	.3789	8.382E-03	.3058
10.71	.207	795.11	7.124E-03	.2599	9.485E-03	.3461	1.137E-02	.4149	9.110E-03	.3324
11.10	.214	796.33	7.176E-03	.2618	9.561E-03	.3489	1.147E-02	.4184	9.182E-03	.3350
11.48	.222	796.08	7.165E-03	.2614	9.546E-03	.3483	1.145E-02	.4177	9.167E-03	.3345
11.85	.229	797.83	7.239E-03	.2641	9.656E-03	.3523	1.159E-02	.4228	9.271E-03	.3383
12.23	.236	796.49	7.183E-03	.2621	9.572E-03	.3492	1.148E-02	.4189	9.192E-03	.3354
12.60	.244	797.45	7.223E-03	.2636	9.632E-03	.3514	1.156E-02	.4217	9.249E-03	.3374
12.98	.251	799.80	7.32[illegible]E-03	.2672	9.720E-03	.3568	1.175E-02	.4287	9.369E-03	.3426
13.35	.258	802.32	7.433E-03	.2712	9.942E-03	.3627	1.196E-02	.4364	9.541E-03	.3481
13.72	.265	802.96	7.460E-03	.2722	9.983E-03	.3642	1.201E-02	.4383	9.580E-03	.3495
14.08	.272	803.38	7.479E-03	.2729	1.001E-02	.3652	1.205E-02	.4396	9.606E-03	.3505
14.45	.279	804.54	7.529E-03	.2747	1.009E-02	.3680	1.215E-02	.4432	9.677E-03	.3531

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH62
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP		REX	REK
50	7	TILE INSERT	0.111	.010	.010	1.298E 06	2.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	612.2	1329	29.46	30.01	30.00	.54	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.5	.0632	2.825	3846	5.495E-05	7.771E-08	2.720E 06	2.741E-02	79

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
13.657	1.792	12.651	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
14.81	.286	806.73	7.626E-03	.2782	1.023E-02	.3732	1.233E-02	.4500	9.813E-03	.3580
15.17	.293	801.24	7.387E-03	.2695	9.873E-03	.3602	1.187E-02	.4331	9.477E-03	.3458
15.53	.300	803.20	7.472E-03	.2726	1.000E-02	.3649	1.204E-02	.4391	9.596E-03	.3501
15.89	.307	806.22	7.692E-03	.2807	1.033E-02	.3768	1.240E-02	.4547	9.906E-03	.3614
16.25	.314	809.18	7.735E-03	.2822	1.039E-02	.3792	1.255E-02	.4578	9.967E-03	.3636
16.60	.321	809.14	7.734E-03	.2822	1.039E-02	.3791	1.255E-02	.4577	9.965E-03	.3636
16.96	.328	810.29	7.785E-03	.2840	1.047E-02	.3819	1.265E-02	.4614	1.004E-02	.3662
17.31	.335	811.53	7.795E-03	.2844	1.048E-02	.3825	1.267E-02	.4621	1.005E-02	.3667
17.66	.341	811.15	7.823E-03	.2854	1.052E-02	.3840	1.272E-02	.4641	1.009E-02	.3682
18.01	.348	812.88	7.899E-03	.2882	1.064E-02	.3882	1.287E-02	.4696	1.020E-02	.3721
18.35	.355	813.06	7.907E-03	.2885	1.065E-02	.3886	1.289E-02	.4702	1.021E-02	.3725
18.70	.361	812.28	7.873E-03	.2873	1.060E-02	.3867	1.282E-02	.4677	1.016E-02	.3708
19.04	.368	811.95	7.859E-03	.2867	1.058E-02	.3859	1.279E-02	.4667	1.014E-02	.3700
19.38	.375	811.84	7.854E-03	.2866	1.057E-02	.3857	1.278E-02	.4663	1.013E-02	.3698
19.72	.381	810.32	7.787E-03	.2841	1.047E-02	.3820	1.265E-02	.4615	1.004E-02	.3663
20.06	.388	807.59	7.666E-03	.2797	1.029E-02	.3754	1.241E-02	.4529	9.869E-03	.3601
20.39	.394	809.03	7.731E-03	.2821	1.039E-02	.3789	1.254E-02	.4575	9.960E-03	.3634
20.73	.401	801.64	7.407E-03	.2703	9.903E-03	.3613	1.191E-02	.4345	9.505E-03	.3468
21.06	.407	812.42	7.881E-03	.2875	1.061E-02	.3871	1.283E-02	.4682	1.017E-02	.3711
21.39	.413	815.15	8.001E-03	.2919	1.079E-02	.3938	1.307E-02	.4770	1.034E-02	.3774
21.72	.420	817.52	8.107E-03	.2958	1.095E-02	.3997	1.329E-02	.4848	1.050E-02	.3829
22.05	.426	817.67	8.114E-03	.2961	1.096E-02	.4000	1.330E-02	.4853	1.051E-02	.3833

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE 12/03/75

NASA/FT OHGO
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
50	7	TILE INSERT	0.111	.010	.010	1.298E 06	2.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	612.2	1329	29.46	30.01	30.00	.54	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
46.5	.0632	2.825	3946	5.495E-05	7.771E-08	2.720E 06	2.741E-02	79

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.657	1.792	12.651	1000

X (IN.)	X/L	TW (DEG-R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
22.37	.432	815.93	8.037E-03	.2932	1.085E-02	.3957	1.314E-02	.4796	1.039E-02	.3793
22.69	.439	816.52	8.063E-03	.2942	1.089E-02	.3972	1.320E-02	.4815	1.043E-02	.3806
23.02	.445	816.01	8.041E-03	.2934	1.085E-02	.3960	1.315E-02	.4799	1.040E-02	.3795
23.34	.451	814.79	7.983E-03	.2913	1.076E-02	.3928	1.304E-02	.4757	1.032E-02	.3765
23.65	.457	816.29	8.050E-03	.2937	1.087E-02	.3964	1.317E-02	.4805	1.041E-02	.3799
23.97	.463	817.42	8.107E-03	.2958	1.095E-02	.3996	1.328E-02	.4847	1.049E-02	.3829
24.29	.469	816.32	8.055E-03	.2939	1.087E-02	.3968	1.318E-02	.4809	1.042E-02	.3802
24.60	.475	812.33	7.879E-03	.2875	1.061E-02	.3870	1.283E-02	.4681	1.017E-02	.3710
24.91	.482	809.37	7.749E-03	.2827	1.041E-02	.3799	1.257E-02	.4587	9.985E-03	.3643
25.22	.487	809.39	7.750E-03	.2828	1.041E-02	.3800	1.258E-02	.4588	9.987E-03	.3644
25.53	.493	807.77	7.678E-03	.2801	1.031E-02	.3760	1.243E-02	.4537	9.885E-03	.3607
25.83	.499	802.53	7.449E-03	.2718	9.964E-03	.3635	1.199E-02	.4374	9.563E-03	.3489
26.14	.505	767.75	6.042E-03	.2204	7.916E-03	.2888	9.370E-03	.3419	7.622E-03	.2781

NASA/RI 0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
50	7	TILE INSERT	0.111	.010	.010	1.298E 06	2.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	612.2	1329	29.46	30.01	30.00	.54	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.5	.0632	2.825	3846	5.495E-05	7.771E-08	2.720E 06	2.741E-02	79

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.657	1.792	12.651	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.786	530.59	528.72	527.26	526.55	526.63	526.43	0	0	526.96	527.73
1.783	535.98	534.12	531.00	529.34	528.21	527.59	0	0	528.09	528.94
2.779	539.64	537.72	533.88	531.57	529.58	528.48	0	0	529.25	530.33
3.776	542.64	540.64	536.31	533.52	530.80	529.34	0	0	530.37	531.58
4.772	545.25	543.08	538.46	535.30	532.01	530.14	0	0	531.31	532.70
5.769	547.60	545.37	540.46	536.98	533.17	531.00	0	0	532.34	533.82
6.765	549.76	547.45	542.29	538.58	534.29	531.75	0	0	533.60	535.12
7.762	551.78	549.35	544.02	540.08	535.42	532.55	0	0	534.76	536.46
8.759	553.64	551.16	545.69	541.55	536.54	533.35	0	0	535.88	537.53
9.755	555.39	552.86	547.28	542.99	537.63	534.15	0	0	536.95	538.55
10.752	557.05	554.49	548.77	544.34	538.70	534.97	0	0	537.93	539.71
11.748	558.67	556.03	550.23	545.66	539.76	535.77	0	0	539.18	540.96
12.631	560.01	557.37	551.49	546.84	540.70	536.48	0	0	540.16	541.98
12.745	560.18	557.54	551.63	546.98	540.82	536.60	0	0	540.34	542.16
13.741	561.66	558.96	553.00	548.24	541.91	537.46	0	0	541.36	543.23
14.738	563.07	560.38	554.31	549.50	542.96	538.31	0	0	542.43	544.38
15.735	564.43	561.69	555.65	550.76	543.85	539.17	0	0	543.54	545.32

AEDC (AHO.INC.) ARNOLD AFS. TENNESSEE 12/03/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/RI OHIO

V41B-E9A

L = 4.311 FT

GROUP	CONF.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	H	REX	REK
50	7	TILE INSERT	0.111	.010	.010	1.298E 06	2.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	612.2	1329	29.46	30.01	30.00	.54	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.5	.0632	2.825	3846	5.495E-05	7.771E-08	2.720E 06	2.741E-02	79

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
13.657	1.792	12.651	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.703	1
9.165	2
13.778	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

NASA/RI OHGO
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION, SIZE, X/L	GAP	K	REX	RE..
51	7	TILE INSERT	0.111	.010	-.020	1.189E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.8	1223	29.50	30.00	30.00	.50	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0575	2.569	3837	5.022E-05	7.734E-08	2.492E 06	2.612E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.523	1.783	15.522	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.108	585.33	7.123E-04	.0273	8.681E-04	.0332	9.746E-04	.0373	8.451E-04	.0324
7.20	.139	688.17	9.879E-04	.0378	1.209E-03	.0463	1.362E-03	.0521	1.177E-03	.0451
7.60	.147	707.83	3.551E-03	.1360	4.524E-03	.1732	5.242E-03	.2007	4.375E-03	.1675
8.00	.155	734.39	4.349E-03	.1665	5.611E-03	.2148	6.563E-03	.2513	5.416E-03	.2074
8.39	.162	754.88	4.874E-03	.1866	6.341E-03	.2428	7.464E-03	.2858	6.112E-03	.2340
8.78	.170	756.92	5.073E-03	.1942	6.621E-03	.2535	7.813E-03	.2992	6.379E-03	.2443
9.17	.177	762.84	5.272E-03	.2019	6.903E-03	.2643	8.166E-03	.3127	6.648E-03	.2545
9.56	.185	766.82	5.408E-03	.2071	7.097E-03	.2717	8.410E-03	.3220	6.832E-03	.2616
9.95	.192	774.87	5.689E-03	.2178	7.500E-03	.2872	8.920E-03	.3415	7.215E-03	.2763
10.33	.200	779.17	5.843E-03	.2237	7.722E-03	.2957	9.202E-03	.3523	7.425E-03	.2843
10.71	.207	787.55	6.149E-03	.2355	8.169E-03	.3128	9.775E-03	.3742	7.849E-03	.3005
11.10	.214	788.68	6.192E-03	.2371	8.230E-03	.3151	9.853E-03	.3773	7.907E-03	.3028
11.48	.222	790.95	6.277E-03	.2403	8.356E-03	.3199	1.001E-02	.3834	8.026E-03	.3073
11.85	.229	793.79	6.384E-03	.2445	8.514E-03	.3260	1.022E-02	.3912	8.175E-03	.3130
12.23	.236	795.95	6.467E-03	.2476	8.636E-03	.3307	1.038E-02	.3973	8.291E-03	.3175
12.60	.244	796.48	6.488E-03	.2484	8.667E-03	.3318	1.042E-02	.3988	8.320E-03	.3186
12.98	.251	799.21	6.594E-03	.2525	8.824E-03	.3379	1.062E-02	.4066	8.468E-03	.3242
13.35	.258	801.04	6.666E-03	.2552	8.931E-03	.3420	1.076E-02	.4120	8.570E-03	.3281
13.72	.265	802.92	6.740E-03	.2581	9.041E-03	.3462	1.090E-02	.4174	8.673E-03	.3321
14.08	.272	802.21	6.712E-03	.2570	8.999E-03	.3446	1.085E-02	.4153	8.634E-03	.3306
14.45	.279	805.64	6.848E-03	.2622	9.203E-03	.3524	1.111E-02	.4255	8.826E-03	.3380

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH60
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	X	REX	REK
S1	7	TILE INSERT	0.111	.010	-.020	1.189E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.8	1323	29.50	30.00	30.00	.50	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0575	2.509	3837	5.022E-05	7.734E-08	2.492E 06	2.612E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
16.523	1.783	15.522	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
14.81	.286	804.14	6.949E-03	.2661	9.354E-03	.3582	1.131E-02	.4331	8.969E-03	.3434
15.17	.293	807.22	6.912E-03	.2647	9.299E-03	.3560	1.124E-02	.4303	8.916E-03	.3414
15.53	.300	805.22	6.832E-03	.2616	9.178E-03	.3514	1.108E-02	.4243	8.803E-03	.3371
15.89	.307	809.37	7.000E-03	.2680	9.430E-03	.3611	1.141E-02	.4369	9.040E-03	.3461
16.25	.314	810.24	7.035E-03	.2694	9.488E-03	.3631	1.148E-02	.4396	9.090E-03	.3481
16.60	.321	810.99	7.065E-03	.2705	9.528E-03	.3648	1.154E-02	.4419	9.133E-03	.3497
16.96	.328	810.38	7.041E-03	.2696	9.492E-03	.3634	1.149E-02	.4400	9.094E-03	.3484
17.31	.335	811.37	7.080E-03	.2711	9.552E-03	.3657	1.157E-02	.4430	9.155E-03	.3505
17.66	.341	811.51	7.086E-03	.2713	9.560E-03	.3661	1.158E-02	.4435	9.163E-03	.3509
18.01	.348	812.71	7.135E-03	.2732	9.634E-03	.3689	1.168E-02	.4472	9.232E-03	.3535
18.35	.355	812.27	7.117E-03	.2725	9.607E-03	.3679	1.164E-02	.4458	9.207E-03	.3525
18.70	.361	812.07	7.109E-03	.2722	9.595E-03	.3674	1.163E-02	.4452	9.196E-03	.3521
19.04	.368	811.52	7.087E-03	.2714	9.562E-03	.3661	1.158E-02	.4436	9.165E-03	.3509
19.38	.375	811.33	7.080E-03	.2711	9.550E-03	.3657	1.157E-02	.4430	9.154E-03	.3505
19.72	.381	810.08	7.030E-03	.2692	9.475E-03	.3628	1.147E-02	.4392	9.083E-03	.3478
20.06	.388	808.53	6.966E-03	.2667	9.379E-03	.3591	1.134E-02	.4343	8.992E-03	.3443
20.39	.394	811.05	7.069E-03	.2707	9.534E-03	.3651	1.155E-02	.4422	9.139E-03	.3499
20.73	.401	808.10	6.950E-03	.2661	9.355E-03	.3582	1.131E-02	.4331	8.969E-03	.3434
21.06	.407	813.16	7.154E-03	.2739	9.663E-03	.3700	1.172E-02	.4487	9.260E-03	.3546
21.39	.413	810.31	7.282E-03	.2788	9.857E-03	.3774	1.197E-02	.4585	9.443E-03	.3616
21.72	.420	817.90	7.347E-03	.2813	9.956E-03	.3812	1.211E-02	.4635	9.536E-03	.3651
22.05	.426	817.29	7.322E-03	.2804	9.918E-03	.3798	1.206E-02	.4616	9.500E-03	.3638

AEDC (ARO.INC.) ARNOLD AFS. TENNESSEE 12/03/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69

V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
51	7	TILE INSERT	0.111	.010	-.020	1.189E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.8	1323	29.50	30.00	30.00	.50	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0575	2.569	3837	5.022E-05	7.734E-08	2.492E 06	2.612E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.523	1.783	15.522	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
22.37	.432	817.29	7.319E-03	.2802	9.913E-03	.3796	1.205E-02	.4613	9.495E-03	.3636
22.60	.439	816.86	7.305E-03	.2797	9.892E-03	.3788	1.202E-02	.4603	9.475E-03	.3628
23.02	.445	815.86	7.264E-03	.2782	9.830E-03	.3764	1.194E-02	.4571	9.417E-03	.3606
23.34	.451	814.49	7.209E-03	.2760	9.746E-03	.3732	1.183E-02	.4529	9.338E-03	.3576
23.65	.457	817.08	7.311E-03	.2799	9.901E-03	.3791	1.203E-02	.4607	9.484E-03	.3631
23.97	.463	814.65	7.379E-03	.2825	1.000E-02	.3831	1.217E-02	.4660	9.581E-03	.3669
24.29	.469	818.42	7.369E-03	.2822	9.990E-03	.3825	1.215E-02	.4652	9.568E-03	.3663
24.60	.475	813.36	7.184E-03	.2751	9.708E-03	.3717	1.178E-02	.4509	9.302E-03	.3562
24.91	.482	813.66	7.096E-03	.2717	9.574E-03	.3666	1.160E-02	.4442	9.176E-03	.3514
25.22	.487	811.25	7.079E-03	.2711	9.549E-03	.3656	1.157E-02	.4429	9.153E-03	.3505
25.53	.493	808.53	6.970E-03	.2669	9.384E-03	.3593	1.135E-02	.4346	8.997E-03	.3445
25.83	.499	803.46	6.766E-03	.2591	9.079E-03	.3476	1.095E-02	.4193	8.710E-03	.3335
26.14	.505	787.60	5.972E-03	.2287	7.910E-03	.3029	9.441E-03	.3615	7.604E-03	.2911

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/RI OH60

V416-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
51	7	TILE INSERT	0.111	.010	-.020	1.189E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.8	1323	29.50	30.00	30.00	.50	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0575	2.569	3837	5.022E-05	7.734E-08	2.492E 06	2.612E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.523	1.783	15.522	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.782	524.02	522.22	520.82	520.16	520.22	520.04	0	0	523.68	524.67
1.779	529.17	527.38	524.43	522.85	521.79	521.18	0	0	524.72	525.62
2.775	532.67	530.83	527.18	524.97	523.06	522.04	0	0	525.75	526.83
3.772	535.51	533.62	529.47	526.85	524.25	522.88	0	0	526.69	527.86
4.768	538.02	535.98	531.57	528.54	525.39	523.66	0	0	527.73	529.07
5.765	540.20	538.11	533.44	530.15	526.52	524.43	0	0	528.54	530.02
6.761	542.29	540.09	535.19	531.66	527.59	525.18	0	0	529.66	531.00
7.758	544.20	541.94	536.84	533.14	528.66	525.45	0	0	530.69	532.34
8.755	545.99	543.64	538.44	534.51	529.70	526.70	0	0	531.72	533.24
9.751	547.66	545.29	539.94	535.87	530.74	527.50	0	0	532.61	534.18

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

~~VON KARMAN GAS DYNAMICS FACILITY~~

50 INCH HYPERSONIC TUNNEL B

~~NASA/RI OH69~~

V418-E9A

~~L = 4.311 FT~~

GROUP	CONFIG	*** MODEL DESCRIPTION **	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
51	7	TILE INSERT	0.111	.010	-.020	1.189E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.8	1323	29.50	30.00	30.00	.50	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0575	2.569	3837	5.022E-05	7.734E-08	2.492E 06	2.612E-02	82

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.523	1.783	15.522	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.745	1
10.460	2

AEDC (AHO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

~~VON KARMAN GAS DYNAMICS FACILITY~~

50 INCH HYPERSONIC TUNNEL B

~~NASA/GI 0H69~~

V41B-E9A

~~L = 4.311 FT~~

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	RCK
52	7	TILE INSERT	0.111	.010	-.020	1.189E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.4	1324	29.50	30.00	30.00	.50	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.2	.0576	2.572	3839	5.022E-05	7.742E-08	2.490E 06	2.614E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
15.204	1.792	14.198	1000

X (IN)	X/L	TW (DEG F)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
7.20	.139	624.12	1.655E-03	.0633	2.044E-03	.0782	2.316E-03	.0886	1.986E-03	.0760
7.40	.142	693.09	3.493E-03	.1336	4.432E-03	.1696	5.120E-03	.1959	4.289E-03	.1641
8.00	.155	724.24	4.226E-03	.1617	5.421E-03	.2074	6.314E-03	.2416	5.237E-03	.2004
8.39	.162	734.83	4.594E-03	.1758	5.926E-03	.2267	6.930E-03	.2652	5.720E-03	.2189
8.78	.170	745.64	4.952E-03	.1895	6.422E-03	.2457	7.542E-03	.2886	6.194E-03	.2370
9.17	.177	749.02	5.068E-03	.1939	6.585E-03	.2519	7.743E-03	.2963	6.349E-03	.2429
9.56	.185	755.36	5.243E-03	.2022	6.887E-03	.2635	8.119E-03	.3106	6.637E-03	.2539
9.95	.192	761.80	5.473E-03	.2094	7.155E-03	.2738	8.454E-03	.3235	6.892E-03	.2637
10.33	.200	764.54	5.570E-03	.2131	7.293E-03	.2790	8.627E-03	.3301	7.023E-03	.2687
10.71	.207	770.92	6.132E-03	.2346	8.099E-03	.3099	9.647E-03	.3691	7.789E-03	.2980
11.10	.214	781.38	6.225E-03	.2382	8.234E-03	.3151	9.819E-03	.3757	7.917E-03	.3029
11.48	.222	785.14	6.369E-03	.2437	8.443E-03	.3230	1.009E-02	.3859	8.115E-03	.3105
11.85	.229	787.74	6.459E-03	.2475	8.590E-03	.3287	1.027E-02	.3931	8.254E-03	.3158
12.23	.236	789.68	6.537E-03	.2501	8.690E-03	.3325	1.040E-02	.3980	8.348E-03	.3196
12.60	.244	790.05	6.560E-03	.2510	8.722E-03	.3337	1.044E-02	.3996	8.379E-03	.3206
12.98	.251	792.17	6.643E-03	.2542	8.845E-03	.3384	1.060E-02	.4057	8.496E-03	.3251
13.35	.258	795.44	6.774E-03	.2592	9.036E-03	.3459	1.085E-02	.4152	8.678E-03	.3320
13.72	.265	796.87	6.831E-03	.2614	9.123E-03	.3490	1.096E-02	.4194	8.758E-03	.3351
14.08	.272	795.40	6.812E-03	.2606	9.094E-03	.3480	1.092E-02	.4180	8.731E-03	.3341
14.45	.279	799.16	6.924E-03	.2649	9.260E-03	.3543	1.114E-02	.4262	8.884E-03	.3401
14.81	.286	801.95	7.039E-03	.2693	9.430E-03	.3608	1.136E-02	.4347	9.049E-03	.3462

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH60
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
52	7	TILE INSERT	0.111	.010	-.020	1.189E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.4	1324	29.50	30.00	30.00	.50	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.2	.0576	2.572	3839	5.022E-05	7.742E-08	2.490E 06	2.614E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.204	1.792	14.198	1000

X (IN)	X/L	TW (DEG F)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
15.17	.293	796.50	6.817E-03	.2608	9.101E-03	.3482	1.093E-02	.4183	8.737E-03	.3343
15.53	.300	795.35	6.771E-03	.2591	9.033E-03	.3456	1.085E-02	.4150	8.674E-03	.3319
15.89	.307	802.68	7.069E-03	.2705	9.475E-03	.3625	1.142E-02	.4369	9.091E-03	.3478
16.25	.314	803.59	7.136E-03	.2719	9.531E-03	.3647	1.149E-02	.4397	9.144E-03	.3499
16.60	.321	804.30	7.137E-03	.2731	9.576E-03	.3664	1.155E-02	.4419	9.187E-03	.3515
16.96	.328	805.07	7.169E-03	.2743	9.625E-03	.3683	1.161E-02	.4444	9.232E-03	.3532
17.31	.335	805.18	7.174E-03	.2745	9.632E-03	.3685	1.162E-02	.4447	9.239E-03	.3535
17.66	.341	806.59	7.233E-03	.2767	9.720E-03	.3719	1.174E-02	.4491	9.322E-03	.3567
18.01	.348	807.66	7.276E-03	.2784	9.784E-03	.3744	1.182E-02	.4523	9.382E-03	.3590
18.35	.355	808.38	7.309E-03	.2796	9.834E-03	.3763	1.189E-02	.4548	9.429E-03	.3608
18.70	.361	807.17	7.258E-03	.2777	9.758E-03	.3733	1.179E-02	.4510	9.358E-03	.3580
19.04	.368	806.97	7.250E-03	.2774	9.745E-03	.3729	1.177E-02	.4504	9.346E-03	.3576
19.38	.375	807.26	7.262E-03	.2779	9.764E-03	.3736	1.180E-02	.4513	9.363E-03	.3582
19.72	.381	804.85	7.161E-03	.2740	9.613E-03	.3678	1.160E-02	.4437	9.221E-03	.3528
20.06	.388	803.21	7.093E-03	.2714	9.511E-03	.3639	1.147E-02	.4387	9.125E-03	.3491
20.39	.394	804.22	7.135E-03	.2730	9.574E-03	.3663	1.155E-02	.4419	9.184E-03	.3514
20.73	.401	797.47	6.858E-03	.2624	9.162E-03	.3506	1.101E-02	.4213	8.795E-03	.3365
21.06	.407	807.97	7.293E-03	.2790	9.810E-03	.3753	1.186E-02	.4536	9.407E-03	.3599
21.39	.413	810.95	7.419E-03	.2838	9.999E-03	.3826	1.210E-02	.4631	9.585E-03	.3667
21.72	.420	813.53	7.527E-03	.2880	1.016E-02	.3889	1.232E-02	.4714	9.740E-03	.3727
22.05	.426	812.43	7.481E-03	.2862	1.009E-02	.3862	1.223E-02	.4679	9.674E-03	.3701
22.37	.432	811.54	7.444E-03	.2848	1.004E-02	.3840	1.215E-02	.4650	9.621E-03	.3681

NASA/RI 0H69
V41d-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
52	7	TILE INSERT	0.111	.010	-.020	1.189E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.4	1324	29.50	30.00	30.00	.50	30.00	0

T - INF (DEG R)	P - INF (PSIA)	U - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.2	.0576	2.512	3839	5.022E-05	7.742E-08	2.490E 06	2.614E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
15.204	1.792	14.198	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
22.69	.439	811.95	7.461E-03	.2855	1.006E-02	.3850	1.219E-02	.4663	9.645E-03	.3690
23.02	.445	811.39	7.438E-03	.2846	1.003E-02	.3837	1.214E-02	.4646	9.613E-03	.3678
23.34	.451	810.13	7.385E-03	.2826	9.949E-03	.3806	1.204E-02	.4606	9.538E-03	.3649
23.65	.457	812.41	7.481E-03	.2862	1.009E-02	.3862	1.223E-02	.4678	9.674E-03	.3701
23.97	.463	813.53	7.528E-03	.2881	1.016E-02	.3889	1.232E-02	.4715	9.741E-03	.3727
24.29	.469	811.74	7.455E-03	.2853	1.005E-02	.3847	1.218E-02	.4659	9.637E-03	.3687
24.60	.475	808.18	7.303E-03	.2794	9.825E-03	.3759	1.188E-02	.4544	9.421E-03	.3605
24.91	.482	808.21	7.179E-03	.2747	9.638E-03	.3688	1.163E-02	.4450	9.245E-03	.3537
25.22	.487	804.34	7.143E-03	.2733	9.585E-03	.3667	1.156E-02	.4423	9.194E-03	.3518
25.53	.493	802.06	7.048E-03	.2697	9.444E-03	.3613	1.138E-02	.4353	9.061E-03	.3467
25.83	.499	798.48	6.902E-03	.2641	9.226E-03	.3530	1.109E-02	.4245	8.856E-03	.3388
26.14	.505	773.65	5.942E-03	.2273	7.824E-03	.2994	9.297E-03	.3557	7.528E-03	.2880

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/FI OH60
V418-E9A

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE: X/L	GAP	K	REX	REK
52	7	TILE INSERT	0.111	.010	-.020	1.189E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.4	1324	29.50	30.00	30.00	.50	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
46.2	.0576	2.572	3839	5.022E-05	7.742E-08	2.490E 06	2.614E-02	80

TOTAL TIME SECONDS	INJECT. TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.204	1.792	14.198	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.786	521.53	519.77	518.36	517.70	517.46	517.52	0	0	520.98	521.79
1.783	525.72	525.03	522.01	520.42	519.22	518.69	0	0	521.72	522.65
2.779	529.26	528.48	524.76	522.55	520.60	519.59	0	0	522.60	523.68
3.776	533.11	531.24	527.11	524.43	521.83	520.42	0	0	523.64	524.85
4.772	535.85	533.64	529.19	526.16	522.97	521.20	0	0	524.81	526.07
5.769	537.90	535.83	531.06	527.77	524.10	521.98	0	0	525.75	527.23
6.765	539.93	537.78	532.84	529.28	525.17	522.76	0	0	526.69	528.13
7.762	541.83	539.64	534.53	530.74	526.26	523.50	0	0	527.64	529.16
8.759	543.70	541.39	536.10	532.13	527.32	524.28	0	0	528.80	530.33
9.755	545.37	543.05	537.60	533.52	528.36	525.03	0	0	529.84	531.49
10.752	546.98	544.58	539.08	534.83	529.40	525.83	0	0	530.82	532.43
11.748	548.53	546.10	540.46	536.13	530.44	526.63	0	0	531.76	533.51
12.745	550.00	547.51	541.85	537.37	531.45	527.41	0	0	532.66	534.45
13.741	551.40	548.91	543.17	538.61	532.49	528.24	0	0	533.82	535.65
14.244	552.14	549.65	543.90	539.26	533.08	528.72	0	0	534.31	536.14
14.738	552.77	550.26	544.43	539.79	533.49	529.04	0	0	534.80	536.64
15.735	554.11	551.54	545.69	540.96	534.53	529.91	0	0	535.74	537.62
16.731	555.36	552.80	546.92	542.11	535.51	530.74	0	0	536.64	538.51
17.728	556.64	554.02	548.10	543.23	536.54	531.00	0	0	537.71	539.62
19.724	557.80	555.21	549.24	544.34	537.52	532.43	0	0	538.82	540.65

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/RI 0460

V416-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	RLX	REK
52	7	TILE INSERT	0.111	.010	-.020	1.189E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.4	1324	29.50	30.00	30.00	.50	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.2	.0576	2.572	3839	5.022E-05	7.742E-08	2.490E 06	2.614E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.204	1.792	14.198	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.571	1
9.481	2
14.496	3

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REN
53	7	TILE INSERT	0.111	.010	-.020	1.190E 06	4.155E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.3	1321	39.27	40.02	30.00	-9.27	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0574	2.567	3835	5.022E-05	7.726E-08	2.493E 06	2.610E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.811	1.801	11.800	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.24	.140	601.59	1.338E-03	.0512	1.638E-03	.0628	1.846E-03	.0707	1.522E-03	.0583
7.69	.149	757.05	6.063E-03	.2323	7.916E-03	.3033	9.345E-03	.3580	7.169E-03	.2747
8.15	.158	787.35	7.298E-03	.2796	9.697E-03	.3715	1.161E-02	.4446	8.720E-03	.3341
8.60	.166	795.42	7.651E-03	.2931	1.022E-02	.3915	1.228E-02	.4704	9.170E-03	.3513
9.05	.175	797.43	7.741E-03	.2966	1.035E-02	.3966	1.245E-02	.4771	9.285E-03	.3557
9.49	.183	798.51	7.790E-03	.2985	1.043E-02	.3994	1.255E-02	.4807	9.347E-03	.3581
9.93	.192	804.35	8.057E-03	.3087	1.082E-02	.4147	1.307E-02	.5006	9.684E-03	.3712
10.37	.200	808.64	8.258E-03	.3164	1.113E-02	.4263	1.346E-02	.5158	9.948E-03	.3811
10.81	.209	813.34	8.478E-03	.3248	1.146E-02	.4390	1.390E-02	.5326	1.023E-02	.3920
11.24	.217	812.32	8.430E-03	.3230	1.139E-02	.4362	1.381E-02	.5290	1.017E-02	.3897
11.67	.226	814.52	8.534E-03	.3269	1.154E-02	.4423	1.401E-02	.5369	1.030E-02	.3948
12.10	.234	817.53	8.676E-03	.3324	1.176E-02	.4506	1.430E-02	.5480	1.049E-02	.4019
12.52	.242	817.04	8.653E-03	.3315	1.173E-02	.4492	1.426E-02	.5462	1.046E-02	.4007
12.94	.250	818.93	8.745E-03	.3351	1.187E-02	.4547	1.444E-02	.5534	1.058E-02	.4053
13.36	.258	820.79	8.831E-03	.3384	1.200E-02	.4597	1.462E-02	.5602	1.069E-02	.4096
13.78	.266	822.06	8.892E-03	.3407	1.209E-02	.4633	1.475E-02	.5650	1.077E-02	.4127
14.19	.274	823.97	8.984E-03	.3442	1.223E-02	.4688	1.494E-02	.5723	1.089E-02	.4173
14.60	.282	826.84	9.123E-03	.3495	1.245E-02	.4770	1.523E-02	.5834	1.107E-02	.4242
15.01	.290	826.96	9.129E-03	.3498	1.246E-02	.4773	1.524E-02	.5836	1.108E-02	.4245
15.41	.298	822.94	8.936E-03	.3423	1.216E-02	.4659	1.484E-02	.5684	1.083E-02	.4148
15.81	.306	826.45	9.105E-03	.3488	1.242E-02	.4759	1.519E-02	.5819	1.105E-02	.4233

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
53	7	TILE INSERT	0.111	.010	-.020	1.190E 06	4.155E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.3	1321	39.27	40.02	30.00	-9.27	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0574	2.567	3835	5.022E-05	7.726E-08	2.493E 06	2.610E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.811	1.801	11.800	1000

X (IN)	X/L	TW (DEG R)	HI(T0)	HI(T0)/HREF	HI(0.9T0)	HI(0.9T0)/HREF	HI(.85T0)	HI(.85T0)/HREF	HI .934T0)	HI .934T0)/HREF
15.21	.313	826.45	9.105E-03	.3488	1.242E-02	.4759	1.519E-02	.5819	1.105E-02	.4233
15.61	.321	826.61	9.113E-03	.3492	1.243E-02	.4764	1.521E-02	.5826	1.106E-02	.4237
17.00	.329	828.34	9.197E-03	.3524	1.257E-02	.4814	1.538E-02	.5893	1.117E-02	.4280
17.39	.336	828.74	9.217E-03	.3531	1.260E-02	.4826	1.542E-02	.5909	1.120E-02	.4290
17.77	.344	829.89	9.273E-03	.3553	1.268E-02	.4859	1.554E-02	.5954	1.127E-02	.4318
18.16	.351	830.33	9.295E-03	.3561	1.272E-02	.4873	1.559E-02	.5972	1.130E-02	.4329
18.54	.359	830.28	9.292E-03	.3560	1.271E-02	.4871	1.558E-02	.5970	1.130E-02	.4328
18.92	.366	830.42	9.320E-03	.3571	1.276E-02	.4887	1.564E-02	.5992	1.133E-02	.4341
19.29	.373	830.57	9.308E-03	.3566	1.274E-02	.4880	1.561E-02	.5982	1.132E-02	.4335
19.66	.380	827.57	9.161E-03	.3510	1.251E-02	.4793	1.531E-02	.5864	1.112E-02	.4262
20.03	.387	827.37	9.152E-03	.3506	1.249E-02	.4787	1.529E-02	.5856	1.111E-02	.4257
20.40	.394	827.80	9.173E-03	.3515	1.253E-02	.4800	1.533E-02	.5873	1.114E-02	.4268
20.76	.401	830.39	9.296E-03	.3562	1.272E-02	.4873	1.559E-02	.5973	1.130E-02	.4329
21.12	.408	831.99	9.378E-03	.3593	1.285E-02	.4922	1.576E-02	.6039	1.141E-02	.4371
21.48	.415	833.03	9.430E-03	.3613	1.293E-02	.4953	1.587E-02	.6081	1.148E-02	.4397
21.84	.422	833.89	9.473E-03	.3629	1.300E-02	.4979	1.594E-02	.6116	1.153E-02	.4419
22.19	.429	832.64	9.411E-03	.3606	1.290E-02	.4942	1.583E-02	.6066	1.145E-02	.4387
22.54	.436	833.24	9.441E-03	.3617	1.295E-02	.4960	1.590E-02	.6090	1.149E-02	.4403
22.88	.442	832.93	9.426E-03	.3611	1.292E-02	.4951	1.586E-02	.6078	1.147E-02	.4395
23.23	.449	832.35	9.397E-03	.3600	1.288E-02	.4934	1.580E-02	.6055	1.143E-02	.4381
23.57	.456	834.41	9.499E-03	.3639	1.304E-02	.4995	1.602E-02	.6138	1.157E-02	.4432
23.91	.462	834.47	9.503E-03	.3641	1.304E-02	.4997	1.603E-02	.6141	1.157E-02	.4434

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
53	7	TILE INSERT	0.111	.010	-.020	1.190E 06	4.155E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.3	1321	39.27	40.02	30.00	-9.27	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0574	2.567	3835	5.022E-05	7.726E-08	2.493E 06	2.610E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
12.811	1.801	11.800	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.24	.469	831.13	9.338E-03	.3578	1.278E-02	.4898	1.568E-02	.6006	1.136E-02	.4351
24.57	.475	827.56	9.164E-03	.3511	1.251E-02	.4794	1.531E-02	.5866	1.113E-02	.4263
24.90	.481	827.35	9.154E-03	.3507	1.250E-02	.4788	1.529E-02	.5858	1.111E-02	.4258
25.23	.488	825.54	9.067E-03	.3474	1.236E-02	.4736	1.511E-02	.5788	1.100E-02	.4214
25.55	.494	823.14	8.952E-03	.3430	1.218E-02	.4668	1.487E-02	.5696	1.085E-02	.4156
25.87	.500	808.85	8.277E-03	.3171	1.115E-02	.4273	1.350E-02	.5171	9.971E-03	.3820

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
53	7	TILE INSERT	0.111	.010	-.020	1.190E 06	4.155E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.3	1321	39.27	40.02	30.00	-9.27	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0574	2.567	3835	5.022E-05	7.726E-08	2.493E 06	2.610E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITVITY
12.811	1.801	11.800	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.790	503.26	501.99	500.86	500.16	500.28	500.25	0	0	515.65	517.96
1.787	508.33	507.36	504.84	503.29	502.29	501.77	0	0	518.09	520.62
2.783	511.71	510.88	507.75	505.69	503.87	502.93	0	0	520.39	523.37
3.780	514.48	513.55	510.14	507.72	505.30	503.96	0	0	522.83	526.02
4.776	516.92	515.83	512.25	509.54	506.60	504.90	0	0	525.21	528.67
5.773	519.17	518.06	514.18	511.23	507.87	505.84	0	0	527.59	531.18
6.769	521.17	520.06	515.98	512.79	509.05	506.78	0	0	529.79	533.46
7.766	523.09	521.83	517.67	514.33	510.23	507.69	0	0	531.90	535.79
8.763	524.88	523.55	519.29	515.77	511.38	508.57	0	0	534.22	538.06
9.759	526.58	525.23	520.84	517.19	512.52	509.45	0	0	536.59	540.56
10.756	528.18	526.81	522.31	518.54	513.61	510.32	0	0	538.82	542.74
11.752	529.45	527.95	522.55	518.78	513.82	510.47	0	0	539.13	543.05
12.749	529.76	528.33	523.77	519.85	514.75	511.23	0	0	540.87	544.92
13.745	531.24	529.79	525.14	521.17	515.83	512.16	0	0	543.01	547.09
	532.64	531.00	526.28	522.43	517.58	512.95	0	0	545.18	549.31

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
53	7	TILE INSERT	0.111	.010	-.020	1.190E 06	4.155E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.3	1321	39.27	40.02	30.00	-9.27	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0574	2.567	3835	5.022E-05	7.726E-08	2.493E 06	2.610E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.811	1.801	11.800	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.931	1
8.612	2

NASA/RI 0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
54	8	TILE INSERT	0.175	.020	.015	1.885E 06	3.131E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.3	1319	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0576	2.572	3832	5.041E-05	7.712E-08	2.504E 06	2.612E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.300	1.792	18.294	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.108	591.01	9.211E-04	.0353	1.125E-03	.0431	1.265E-03	.0484	1.095E-03	.0419
10.33	.200	690.88	3.056E-03	.1170	3.868E-03	.1481	4.461E-03	.1708	3.745E-03	.1434
10.71	.207	748.26	4.662E-03	.1785	6.064E-03	.2322	7.137E-03	.2733	5.846E-03	.2238
11.00	.214	782.02	5.040E-03	.1949	6.670E-03	.2554	7.895E-03	.3023	6.423E-03	.2459
11.48	.222	787.06	5.271E-03	.2018	6.929E-03	.2653	8.222E-03	.3148	6.669E-03	.2554
11.85	.229	788.31	5.725E-03	.2192	7.587E-03	.2905	9.059E-03	.3469	7.293E-03	.2792
12.23	.236	789.88	6.022E-03	.2306	8.023E-03	.3072	9.620E-03	.3684	7.705E-03	.2950
12.60	.244	789.82	5.342E-03	.2046	7.031E-03	.2692	8.351E-03	.3198	6.766E-03	.2591
12.98	.251	794.32	6.362E-03	.2436	8.526E-03	.3265	1.027E-02	.3934	8.181E-03	.3133
13.35	.258	801.90	6.457E-03	.2473	8.669E-03	.3319	1.046E-02	.4005	8.316E-03	.3184
13.72	.265	801.86	6.456E-03	.2472	8.668E-03	.3318	1.046E-02	.4004	8.313E-03	.3183
14.08	.272	803.63	6.524E-03	.2498	8.768E-03	.3357	1.059E-02	.4055	8.409E-03	.3220
14.45	.279	808.19	6.694E-03	.2563	9.025E-03	.3454	1.093E-02	.4184	8.651E-03	.3313
14.81	.286	811.69	6.827E-03	.2614	9.226E-03	.3533	1.119E-02	.4286	8.841E-03	.3385
15.17	.293	81[illegible].[illegible]	6.763E-03	.2590	9.130E-03	.3496	1.107E-02	.4237	8.750E-03	.3350
15.53	.300	805.71	6.600E-03	.2527	8.884E-03	.3402	1.074E-02	.4113	8.518E-03	.3262
15.89	.307	804.46	6.705E-03	.2567	9.041E-03	.3462	1.095E-02	.4192	8.666E-03	.3318
16.25	.314	808.56	6.709E-03	.2569	9.047E-03	.3464	1.096E-02	.4195	8.672E-03	.3321
16.60	.321	808.25	6.697E-03	.2564	9.029E-03	.3457	1.093E-02	.4186	8.655E-03	.3314
16.96	.328	811.01	6.802E-03	.2605	9.188E-03	.3518	1.114E-02	.4267	8.805E-03	.3372
17.31	.335	814.58	6.937E-03	.2656	9.394E-03	.3597	1.142E-02	.4371	8.999E-03	.3446

AEDC (ARO.INC.) ARNOLD AFS. TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41H-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION * *	TILE LOCATION/SIZE X/L	GAP	K	REX	REK
54	8	TILE INSERT	0.175	.020	.015	1.885E 06	3.131E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.3	1319	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0576	2.572	3832	5.041E-05	7.712E-08	2.504E 06	2.612E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
19.300	1.792	18.294	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	R14.14	6.921E-03	.2650	9.369E-03	.3587	1.138E-02	.4358	8.975E-03	.3437
18.01	.348	R14.33	6.928E-03	.2653	9.380E-03	.3592	1.140E-02	.4364	8.986E-03	.3441
18.35	.355	R14.26	6.925E-03	.2652	9.376E-03	.3590	1.139E-02	.4362	8.982E-03	.3439
18.70	.361	R13.27	6.888E-03	.2637	9.319E-03	.3568	1.132E-02	.4333	8.928E-03	.3419
19.04	.368	R13.13	6.845E-03	.2621	9.253E-03	.3543	1.123E-02	.4300	8.867E-03	.3395
19.38	.375	R12.96	6.876E-03	.2633	9.301E-03	.3562	1.129E-02	.4324	8.911E-03	.3412
19.72	.381	R14.22	6.925E-03	.2652	9.375E-03	.3590	1.139E-02	.4361	8.981E-03	.3439
20.10	.388	R11.01	6.826E-03	.2614	9.224E-03	.3532	1.119E-02	.4285	8.834E-03	.3385
20.39	.394	R12.59	6.863E-03	.2628	9.280E-03	.3554	1.126E-02	.4313	8.892E-03	.3405
20.73	.401	R09.48	6.746E-03	.2583	9.103E-03	.3485	1.103E-02	.4223	8.725E-03	.3341
21.06	.407	R13.61	6.902E-03	.2643	9.340E-03	.3576	1.134E-02	.4343	8.948E-03	.3426
21.39	.413	R17.21	7.039E-03	.2695	9.550E-03	.3657	1.162E-02	.4451	9.145E-03	.3502
21.72	.420	R18.55	7.091E-03	.2715	9.629E-03	.3687	1.173E-02	.4491	9.220E-03	.3530
22.05	.426	R16.70	7.020E-03	.2688	9.520E-03	.3645	1.158E-02	.4435	9.118E-03	.3491
22.37	.432	R15.84	6.987E-03	.2675	9.470E-03	.3626	1.152E-02	.4410	9.070E-03	.3473
22.69	.439	R15.91	6.990E-03	.2676	9.474E-03	.3628	1.152E-02	.4412	9.074E-03	.3475
23.02	.445	R17.62	7.055E-03	.2702	9.573E-03	.3666	1.166E-02	.4463	9.169E-03	.3511
23.34	.451	R18.19	7.077E-03	.2710	9.608E-03	.3679	1.170E-02	.4480	9.200E-03	.3523
23.65	.457	R17.99	7.070E-03	.2707	9.597E-03	.3675	1.169E-02	.4474	9.190E-03	.3519
23.97	.463	R19.21	7.117E-03	.2725	9.669E-03	.3703	1.178E-02	.4511	9.258E-03	.3545
24.29	.469	R19.91	7.144E-03	.2736	9.711E-03	.3718	1.184E-02	.4533	9.297E-03	.3560
24.60	.475	R15.38	6.970E-03	.2669	9.444E-03	.3616	1.148E-02	.4397	9.046E-03	.3464

NASA/RI OHGO
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
54	8	TILE INSERT	0.175	.020	.015	1.885E 06	3.131E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.3	1319	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0576	2.572	3832	5.041E-05	7.712E-08	2.504E 06	2.612E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.300	1.792	18.294	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	816.99	7.032E-03	.2693	9.539E-03	.3652	1.161E-02	.4445	9.135E-03	.3498
25.22	.487	820.09	7.151E-03	.2738	9.722E-03	.3723	1.185E-02	.4539	9.307E-03	.3564
25.53	.493	816.17	7.001E-03	.2681	9.491E-03	.3634	1.154E-02	.4420	9.090E-03	.3481
25.83	.499	812.71	6.869E-03	.2630	9.290E-03	.3557	1.128E-02	.4318	8.901E-03	.3408
26.14	.505	794.56	6.193E-03	.2371	8.275E-03	.3168	9.946E-03	.3808	7.944E-03	.3042

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	RCK
54	B	TILE INSERT	0.175	.020	.015	1.885E 06	3.131E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.3	1319	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0576	2.572	3832	5.041E-05	7.712E-08	2.504E 06	2.612E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.300	1.792	18.294	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.786	537.37	536.28	534.21	534.03	533.91	533.41	533.09	533.09	527.32	527.55
1.783	542.38	541.91	537.55	536.63	535.57	534.39	533.77	533.50	527.91	528.67
2.779	545.82	545.46	540.20	538.70	536.87	535.16	534.39	533.94	528.80	529.84
3.776	548.54	548.19	542.41	540.53	537.99	535.87	534.89	534.39	529.61	530.73
4.772	550.93	550.59	544.47	542.18	539.11	536.58	535.42	534.83	530.46	531.72
5.769	553.15	552.69	546.28	543.73	540.17	537.23	535.87	535.22	531.31	532.75
6.765	555.19	554.67	547.98	545.23	541.18	537.85	536.34	535.57	532.34	533.73
7.762	557.02	556.47	549.59	546.64	542.20	538.44	536.78	535.96	533.37	534.85
8.759	558.76	558.18	551.14	547.98	543.17	539.08	537.23	536.37	534.27	535.70
9.755	560.39	559.78	552.60	549.30	544.17	539.70	537.67	536.72	535.07	536.64
10.752	561.95	561.31	554.00	550.56	545.11	540.32	538.11	537.11	536.05	537.48
11.748	563.43	562.73	555.34	551.73	546.08	540.91	538.52	537.46	537.08	538.64
12.745	564.84	564.15	556.64	552.98	547.02	541.56	539.00	537.85	538.11	539.53
13.741	566.20	565.48	557.89	554.11	547.92	542.15	539.44	538.23	538.91	540.51
14.738	567.49	566.77	559.11	555.25	548.86	542.79	539.91	538.64	539.71	541.27
15.735	568.70	568.01	560.30	556.38	549.77	543.41	540.38	539.00	540.65	542.25
16.731	570.00	569.22	561.43	557.43	550.64	544.03	540.82	539.38	541.76	543.18
17.229	570.60	569.80	562.01	557.95	551.08	544.35	541.06	539.59	542.16	543.76
17.728	571.20	570.40	562.56	558.47	551.52	544.67	541.29	539.79	542.78	544.43
18.724	572.32	571.55	563.66	559.49	552.39	545.32	541.76	540.20	543.50	545.05
19.721	573.44	572.64	564.70	560.50	553.27	545.96	542.26	540.62	544.25	545.85

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
54	8	TILE INSERT	0.175	.020	.015	1.885E 06	3.131E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.3	1319	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0576	2.572	3832	5.041E-05	7.712E-08	2.504E 06	2.612E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.300	1.792	18.294	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)

NASA/RI OHAO
V41H-E9A

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
54	8	TILE INSERT	0.175	.020	.015	1.885E 06	3.131E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.3	1319	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0576	2.572	3832	5.041E-05	7.712E-08	2.504E 06	2.612E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.300	1.792	18.294	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.920	1
11.465	2
17.719	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
55	8	TILE INSERT	0.175	.020	.015	1.894E 06	3.145E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	560.9	1320	29.52	30.02	30.00	.48	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0579	2.589	3834	5.068E-05	7.721E-08	2.516E 06	2.621E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.7E4	1.797	14.776	1000

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.109	577.68	5.766E-04	.0220	7.013E-04	.0268	7.863E-04	.0300	6.829E-04	.0261
9.55	.192	633.54	1.696E-03	.0647	2.100E-03	.0801	2.383E-03	.0910	2.039E-03	.0778
10.33	.200	715.03	3.852E-03	.1470	4.926E-03	.1880	5.725E-03	.2185	4.761E-03	.1817
10.71	.207	739.21	4.607E-03	.1758	5.961E-03	.2275	6.988E-03	.2667	5.750E-03	.2194
11.10	.214	752.14	5.034E-03	.1921	6.550E-03	.2502	7.727E-03	.2949	6.319E-03	.2411
11.48	.222	751.00	4.995E-03	.1906	6.503E-03	.2482	7.660E-03	.2923	6.267E-03	.2392
11.85	.229	766.64	5.536E-03	.2112	7.269E-03	.2774	8.619E-03	.3289	6.996E-03	.2670
12.23	.236	781.89	6.089E-03	.2324	8.067E-03	.3078	9.632E-03	.3675	7.753E-03	.2959
12.60	.244	788.45	6.338E-03	.2418	8.430E-03	.3217	1.010E-02	.3853	8.097E-03	.3090
12.98	.251	796.44	6.649E-03	.2537	8.890E-03	.3392	1.069E-02	.4079	8.531E-03	.3255
13.35	.258	799.11	6.756E-03	.2578	9.046E-03	.3453	1.090E-02	.4158	8.680E-03	.3312
13.72	.265	799.47	6.770E-03	.2583	9.069E-03	.3461	1.092E-02	.4168	8.701E-03	.3320
14.08	.272	802.15	6.879E-03	.2625	9.230E-03	.3522	1.113E-02	.4249	8.853E-03	.3378
14.45	.279	805.66	7.023E-03	.2680	9.440E-03	.3605	1.142E-02	.4356	9.056E-03	.3456
14.81	.286	806.57	7.060E-03	.2694	9.502E-03	.3626	1.149E-02	.4384	9.109E-03	.3476
15.17	.293	805.35	7.010E-03	.2675	9.427E-03	.3597	1.139E-02	.4346	9.038E-03	.3449
15.53	.300	805.31	7.009E-03	.2675	9.425E-03	.3596	1.139E-02	.4346	9.036E-03	.3448
15.89	.307	805.56	7.019E-03	.2678	9.440E-03	.3602	1.141E-02	.4353	9.051E-03	.3454
16.25	.314	804.78	6.987E-03	.2666	9.393E-03	.3584	1.135E-02	.4329	9.006E-03	.3437
16.60	.321	805.94	7.035E-03	.2684	9.464E-03	.3611	1.144E-02	.4365	9.073E-03	.3462
16.96	.328	809.51	7.184E-03	.2741	9.688E-03	.3697	1.173E-02	.4477	9.284E-03	.3543

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0-62
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
5	8	TILE INSERT	0.175	.020	.015	1.894E 06	3.145E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	560.9	1320	29.52	30.02	30.00	.48	30.00	0

T - INF (DEG R)	P - INF (PSIA)	W - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0579	2.589	3834	5.068E-05	7.721E-08	2.516E 06	2.621E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
15.784	1.797	14.776	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	810.44	7.222E-03	.2756	9.746E-03	.3719	1.181E-02	.4506	9.339E-03	.3564
17.66	.341	811.02	7.246E-03	.2765	9.782E-03	.3733	1.186E-02	.4524	9.373E-03	.3577
18.01	.348	811.94	7.285E-03	.2780	9.841E-03	.3755	1.193E-02	.4554	9.429E-03	.3598
18.35	.355	811.67	7.274E-03	.2776	9.823E-03	.3749	1.191E-02	.4545	9.412E-03	.3592
18.70	.361	808.84	7.155E-03	.2730	9.644E-03	.3680	1.167E-02	.4455	9.243E-03	.3527
19.04	.368	809.41	7.180E-03	.2740	9.683E-03	.3695	1.173E-02	.4474	9.279E-03	.3541
19.38	.375	811.35	7.261E-03	.2771	9.804E-03	.3741	1.189E-02	.4535	9.394E-03	.3585
19.72	.381	807.82	7.115E-03	.2715	9.583E-03	.3657	1.160E-02	.4425	9.186E-03	.3505
20.06	.388	807.55	7.103E-03	.2711	9.566E-03	.3650	1.157E-02	.4416	9.170E-03	.3499
20.39	.394	809.26	7.175E-03	.2738	9.674E-03	.3691	1.171E-02	.4470	9.271E-03	.3538
20.73	.401	811.30	7.259E-03	.2770	9.802E-03	.3740	1.188E-02	.4534	9.391E-03	.3584
21.06	.407	812.47	7.308E-03	.2789	9.875E-03	.3768	1.198E-02	.4571	9.461E-03	.3610
21.39	.413	813.61	7.355E-03	.2807	9.947E-03	.3796	1.207E-02	.4607	9.528E-03	.3636
21.72	.420	812.84	7.324E-03	.2795	9.899E-03	.3777	1.201E-02	.4583	9.483E-03	.3619
22.05	.426	812.12	7.294E-03	.2783	9.854E-03	.3760	1.195E-02	.4560	9.441E-03	.3603
22.37	.432	813.18	7.338E-03	.2800	9.921E-03	.3786	1.204E-02	.4594	9.504E-03	.3627
22.69	.439	814.47	7.392E-03	.2821	1.000E-02	.3817	1.215E-02	.4636	9.581E-03	.3656
23.02	.445	815.47	7.434E-03	.2837	1.007E-02	.3841	1.223E-02	.4668	9.640E-03	.3679
23.34	.451	813.22	7.340E-03	.2801	9.924E-03	.3787	1.204E-02	.4596	9.507E-03	.3628
23.65	.457	813.74	7.363E-03	.2810	9.958E-03	.3800	1.209E-02	.4613	9.534E-03	.3640
23.97	.463	814.11	7.377E-03	.2815	9.981E-03	.3809	1.212E-02	.4624	9.560E-03	.3648
24.29	.469	811.28	7.260E-03	.2771	9.803E-03	.3741	1.188E-02	.4535	9.393E-03	.3584

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
55	8	TILE INSERT	0.175	.020	.015	1.894E 06	3.145E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	560.9	1320	29.52	30.02	30.00	.48	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0579	2.589	3834	5.068E-05	7.721E-08	2.516E 06	2.621E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
15.784	1.797	14.776	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	808.40	7.141E-03	.2725	9.623E-03	.3672	1.165E-02	.4444	9.223E-03	.3519
24.91	.482	811.51	7.270E-03	.2774	9.818E-03	.3746	1.190E-02	.4542	9.407E-03	.3590
25.22	.487	809.37	7.182E-03	.2740	9.684E-03	.3695	1.173E-02	.4475	9.281E-03	.3541
25.53	.493	807.82	7.117E-03	.2716	9.587E-03	.3658	1.160E-02	.4426	9.189E-03	.3507
25.83	.499	799.94	6.794E-03	.2593	9.104E-03	.3474	1.097E-02	.4185	8.734E-03	.3333
26.14	.505	717.62	3.934E-03	.1501	5.037E-03	.1922	5.859E-03	.2236	4.867E-03	.1857

NASA/RI OH62
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REA	REK
55.	8	TILE INSERT	0.175	.020	.015	1.894E 06	3.145E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	560.9	1320	29.52	30.02	30.00	.48	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF, (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0579	2.589	3834	5.068E-05	7.721E-08	2.516E 06	2.621E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.764	1.797	14.776	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.788	548.63	547.66	545.55	545.43	545.35	544.76	544.44	544.35	531.90	532.57
1.785	553.56	553.18	548.89	548.01	546.93	545.73	545.11	544.82	532.43	533.28
2.781	556.93	556.67	551.49	550.06	548.19	546.52	545.73	545.26	533.15	534.22
3.778	559.63	559.37	553.68	551.84	549.33	547.19	546.23	545.64	534.13	535.25
4.774	562.04	561.75	555.66	553.47	550.41	547.87	546.69	546.02	535.12	536.37
5.771	564.21	563.83	557.49	555.02	551.46	548.51	547.19	546.46	536.05	537.35
6.767	566.17	565.76	559.17	556.47	552.45	549.12	547.63	546.84	536.86	538.24
7.764	567.98	567.52	560.76	557.86	553.44	549.77	548.07	547.22	537.80	539.13
8.761	569.68	569.19	562.24	559.20	554.43	550.32	548.51	547.57	538.78	540.11
9.757	571.32	570.80	563.69	560.50	555.39	550.94	548.95	547.92	539.85	541.23
10.754	572.87	572.32	565.07	561.72	556.35	551.55	549.39	548.31	540.60	542.16
11.750	574.33	573.73	566.40	562.93	557.25	552.16	549.80	548.69	541.54	542.96
12.747	575.73	575.10	567.70	564.12	558.18	552.77	550.23	549.04	542.43	543.90
13.743	577.08	576.42	568.93	565.25	559.08	553.39	550.67	549.42	543.41	544.92
14.388	577.94	577.25	569.71	565.97	559.66	553.76	550.96	549.65	543.98	545.50
14.740	578.39	577.71	570.11	566.37	559.98	553.97	551.14	549.80	544.47	545.98
15.737	579.62	578.94	571.29	567.44	560.88	554.61	551.58	550.18	545.23	546.74
16.733	580.82	580.13	572.44	568.50	561.75	555.22	552.04	550.59	545.98	547.54
17.730	581.99	581.27	573.53	569.51	562.59	555.86	552.48	550.94	547.00	548.47
18.726	583.12	582.38	574.62	570.54	563.45	556.44	552.95	551.31	547.98	549.49
19.723	584.23	583.49	575.65	571.58	564.26	557.08	553.41	551.69	548.87	550.37

NASA/RI OHAO
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REA	REK
55	8	TILE INSERT	0.175	.020	.015	1.894E 06	3.145E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	560.9	1320	29.52	30.02	30.00	.48	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0579	2.589	3834	5.068E-05	7.721E-08	2.516E 06	2.621E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.784	1.797	14.776	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
55	8	TILE INSERT	0.175	.020	.015	1.894E 06	3.145E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	560.9	1320	29.52	30.02	30.00	.48	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0579	2.589	3834	5.068E-05	7.721E-08	2.516E 06	2.621E-02	83

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.784	1.797	14.776	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.195	1
10.548	2
14.735	3

NASA/RI OHGO
V416-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
56	8	TILE INSERT	0.175	.020	.015	1.875E 06	3.114E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.8	1324	39.25	40.00	30.00	-9.25	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.2	.0576	2.574	3840	5.025E-05	7.744E-08	2.491E 06	2.615E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.090	1.806	9.076	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
8.15	.158	573.21	7.741E-04	.0296	9.398E-04	.0359	1.052E-03	.0403	8.759E-04	.0335
8.60	.166	585.87	1.066E-03	.0408	1.299E-03	.0497	1.459E-03	.0558	1.209E-03	.0463
9.05	.175	602.77	1.483E-03	.0567	1.817E-03	.0695	2.047E-03	.0783	1.688E-03	.0645
9.49	.183	631.39	2.251E-03	.0861	2.783E-03	.1064	3.155E-03	.1207	2.575E-03	.0985
9.93	.192	772.09	7.463E-03	.2854	9.817E-03	.3755	1.166E-02	.4458	8.865E-03	.3391
10.37	.200	758.02	6.832E-03	.2613	8.918E-03	.3411	1.052E-02	.4025	8.078E-03	.3090
10.81	.209	767.66	7.262E-03	.2777	9.529E-03	.3644	1.129E-02	.4319	8.613E-03	.3294
11.24	.217	781.94	7.924E-03	.3031	1.048E-02	.4010	1.250E-02	.4783	9.445E-03	.3613
11.67	.226	789.02	8.267E-03	.3162	1.098E-02	.4201	1.314E-02	.5027	9.878E-03	.3778
12.10	.234	795.80	8.604E-03	.3291	1.148E-02	.4391	1.379E-02	.5272	1.031E-02	.3942
12.52	.242	802.25	8.933E-03	.3417	1.197E-02	.4578	1.442E-02	.5515	1.073E-02	.4103
12.94	.250	804.02	9.026E-03	.3452	1.211E-02	.4631	1.460E-02	.5584	1.085E-02	.4148
13.36	.258	805.22	9.086E-03	.3476	1.220E-02	.4667	1.472E-02	.5631	1.093E-02	.4179
13.78	.266	803.39	8.993E-03	.3440	1.206E-02	.4612	1.454E-02	.5560	1.081E-02	.4133
14.19	.274	805.32	9.094E-03	.3478	1.221E-02	.4670	1.473E-02	.5635	1.093E-02	.4182
14.60	.282	809.30	9.305E-03	.3559	1.253E-02	.4791	1.515E-02	.5794	1.121E-02	.4286
15.01	.290	811.03	9.397E-03	.3594	1.266E-02	.4844	1.533E-02	.5863	1.132E-02	.4331
15.41	.298	808.74	9.276E-03	.3548	1.248E-02	.4774	1.509E-02	.5772	1.117E-02	.4271
15.81	.306	808.63	9.271E-03	.3546	1.247E-02	.4771	1.508E-02	.5768	1.116E-02	.4269
16.21	.313	810.11	9.349E-03	.3576	1.259E-02	.4816	1.524E-02	.5827	1.126E-02	.4307
16.61	.321	809.05	9.294E-03	.3555	1.251E-02	.4784	1.513E-02	.5785	1.119E-02	.4280

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

N354/31 CH03
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
56	8	TILE INSERT	0.175	.020	.015	1.875E 06	3.114E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.8	1324	39.25	40.00	30.00	-9.25	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.2	.0576	2.574	3840	5.025E-05	7.744E-08	2.491E 06	2.615E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
10.090	1.806	9.076	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.00	.329	810.67	9.380E-03	.3587	1.264E-02	.4834	1.530E-02	.5850	1.130E-02	.4322
17.39	.336	813.53	9.530E-03	.3645	1.287E-02	.4921	1.560E-02	.5965	1.150E-02	.4397
17.77	.344	814.15	9.564E-03	.3658	1.292E-02	.4940	1.566E-02	.5991	1.154E-02	.4413
18.16	.351	814.27	9.570E-03	.3660	1.293E-02	.4944	1.568E-02	.5995	1.155E-02	.4417
18.54	.358	814.32	9.573E-03	.3661	1.293E-02	.4946	1.568E-02	.5998	1.155E-02	.4418
18.92	.366	812.43	9.473E-03	.3623	1.278E-02	.4888	1.548E-02	.5921	1.142E-02	.4369
19.29	.373	813.75	9.544E-03	.3650	1.289E-02	.4929	1.562E-02	.5975	1.151E-02	.4403
19.66	.380	812.90	9.499E-03	.3633	1.282E-02	.4903	1.553E-02	.5941	1.146E-02	.4381
20.03	.387	811.61	9.432E-03	.3607	1.272E-02	.4864	1.540E-02	.5889	1.137E-02	.4348
20.40	.394	812.62	9.485E-03	.3628	1.280E-02	.4895	1.550E-02	.5930	1.144E-02	.4374
20.76	.401	814.89	9.605E-03	.3674	1.298E-02	.4964	1.575E-02	.6022	1.159E-02	.4434
21.12	.408	816.19	9.675E-03	.3700	1.309E-02	.5005	1.589E-02	.6076	1.168E-02	.4468
21.48	.415	816.81	9.708E-03	.3713	1.314E-02	.5024	1.595E-02	.6102	1.173E-02	.4485
21.84	.422	816.70	9.702E-03	.3711	1.313E-02	.5021	1.594E-02	.6097	1.172E-02	.4482
22.19	.429	814.45	9.583E-03	.3665	1.295E-02	.4951	1.570E-02	.6005	1.156E-02	.4423
22.54	.436	815.03	9.614E-03	.3677	1.299E-02	.4969	1.576E-02	.6029	1.160E-02	.4438
22.88	.4[illegible]	817.32	9.737E-03	.3724	1.318E-02	.5041	1.601E-02	.6123	1.176E-02	.4499
23.23	.449	816.93	9.717E-03	.3716	1.315E-02	.5029	1.597E-02	.6108	1.174E-02	.4489
23.57	.456	816.42	9.690E-03	.3706	1.311E-02	.5013	1.591E-02	.6087	1.170E-02	.4476
23.91	.462	817.25	9.734E-03	.3723	1.318E-02	.5039	1.600E-02	.6121	1.176E-02	.4498
24.24	.469	815.43	9.637E-03	.3686	1.303E-02	.4983	1.581E-02	.6046	1.163E-02	.4450
24.57	.475	811.95	9.454E-03	.3616	1.275E-02	.4876	1.544E-02	.5905	1.140E-02	.4359

NASA/RI OHIO
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
56	8	TILE INSERT	0.175	.020	.015	1.875E 06	3.114E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.8	1324	39.25	40.00	30.00	-9.25	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.2	.0576	2.574	3840	5.025E-05	7.744E-08	2.491E 06	2.615E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.090	1.806	9.076	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.481	813.50	9.536E-03	.3647	1.287E-02	.4924	1.560E-02	.5968	1.150E-02	.4399
25.23	.488	816.72	9.707E-03	.3713	1.313E-02	.5023	1.595E-02	.6100	1.172E-02	.4484
25.55	.494	814.33	9.580E-03	.3664	1.294E-02	.4950	1.569E-02	.6002	1.156E-02	.4421
25.87	.500	811.67	9.440E-03	.3611	1.273E-02	.4868	1.541E-02	.5895	1.138E-02	.4352

AEDC (ARO, INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
56	8	TILE INSERT	0.175	.020	.015	1.875E 06	3.114E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.8	1324	39.25	40.00	30.00	-9.25	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.2	.0576	2.574	3840	5.025E-05	7.744E-08	2.491E 06	2.615E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.050	1.806	9.076	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.792	553.44	552.77	550.95	550.96	551.20	550.41	550.12	550.18	532.70	534.89
1.789	558.15	558.47	554.64	554.00	553.01	551.69	551.05	550.79	534.58	537.39
2.785	561.31	561.86	557.31	556.21	554.49	552.66	551.78	551.37	536.77	540.02
3.782	563.86	564.49	559.55	558.07	555.80	553.50	552.42	551.90	539.04	542.61
4.778	566.17	566.77	561.52	559.81	557.05	554.35	553.06	552.42	541.32	544.96
5.775	568.21	568.79	563.31	561.37	558.18	555.10	553.62	552.95	543.36	547.27
6.771	570.14	570.66	564.99	562.85	559.26	555.83	554.23	553.44	545.36	549.44
7.768	571.92	572.41	566.54	564.26	560.30	556.56	554.72	553.91	547.63	551.66
8.765	573.59	574.07	568.04	565.59	561.34	557.23	555.28	554.35	549.84	553.83
9.240	574.33	574.79	568.73	566.23	561.84	557.57	555.51	554.58	550.73	554.71
9.761	575.16	575.59	569.48	566.92	562.36	557.92	555.77	554.81	551.92	555.99
10.758	576.68	577.08	570.89	568.16	563.34	558.62	556.30	555.28	553.91	557.98
11.754	578.11	578.51	572.24	569.39	564.32	559.29	556.79	555.74	555.99	560.05
12.751	579.48	579.88	573.53	570.54	565.33	559.95	557.31	556.15	558.07	562.12

NASA/RI OHAO
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
56	8	TILE INSERT	0.175	.020	.015	1.875E 06	3.114E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.8	1324	39.25	40.00	30.00	-9.25	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.2	.0576	2.574	3840	5.025E-05	7.744E-08	2.491E 06	2.615E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.090	1.806	9.076	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.270	1
7.635	2

AEDC (ARO.INC.) ARNOLD AFS. TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
57	8	TILE INSERT	0.175	.020	.015	2.074E 06	3.445E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.2	1319	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0633	2.830	3832	5.547E-05	7.711E-08	2.756E 06	2.739E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.642	1.801	10.631	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.188	569.37	6.014E-04	.0220	7.296E-04	.0266	8.167E-04	.0298	7.108E-04	.0259
9.55	.192	651.94	2.638E-03	.0963	3.288E-03	.1200	3.751E-03	.1369	3.191E-03	.1165
10.33	.200	720.00	4.882E-03	.1782	6.241E-03	.2285	7.290E-03	.2661	6.048E-03	.2208
10.71	.207	730.04	5.253E-03	.1917	6.769E-03	.2471	7.911E-03	.2888	6.534E-03	.2385
11.10	.214	740.43	5.648E-03	.2062	7.317E-03	.2671	8.585E-03	.3134	7.058E-03	.2576
11.48	.222	740.07	5.634E-03	.2057	7.298E-03	.2664	8.561E-03	.3125	7.039E-03	.2570
11.85	.229	757.29	6.318E-03	.2306	8.257E-03	.3014	9.755E-03	.3561	7.954E-03	.2904
12.23	.236	759.11	6.351E-03	.2319	8.305E-03	.3032	9.815E-03	.3583	7.999E-03	.2920
12.60	.244	774.04	7.021E-03	.2563	9.264E-03	.3382	1.103E-02	.4025	8.911E-03	.3253
12.98	.251	779.28	7.206E-03	.2631	9.532E-03	.3480	1.137E-02	.4149	9.165E-03	.3346
13.35	.258	779.04	7.240E-03	.2643	9.581E-03	.3498	1.143E-02	.4172	9.211E-03	.3362
13.72	.265	781.25	7.338E-03	.2679	9.724E-03	.3550	1.161E-02	.4239	9.346E-03	.3412
14.08	.272	784.97	7.505E-03	.2740	9.967E-03	.3639	1.192E-02	.4353	9.577E-03	.3496
14.45	.279	787.51	7.620E-03	.2782	1.014E-02	.3700	1.214E-02	.4432	9.737E-03	.3554
14.81	.286	785.71	7.584E-03	.2768	1.008E-02	.3681	1.207E-02	.4407	9.687E-03	.3536
15.17	.293	785.42	7.548E-03	.2755	1.003E-02	.3662	1.201E-02	.4383	9.637E-03	.3518
15.53	.300	787.47	7.619E-03	.2781	1.013E-02	.3700	1.214E-02	.4431	9.735E-03	.3554
15.89	.307	787.46	7.618E-03	.2781	1.013E-02	.3699	1.214E-02	.4431	9.735E-03	.3554
16.25	.314	784.96	7.505E-03	.2740	9.968E-03	.3639	1.192E-02	.4353	9.577E-03	.3496
16.60	.321	787.61	7.626E-03	.2784	1.014E-02	.3703	1.215E-02	.4436	9.745E-03	.3557
16.96	.328	788.72	7.676E-03	.2802	1.022E-02	.3731	1.225E-02	.4471	9.815E-03	.3583

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
57	8	TILE INSERT	0.175	.020	.015	2.074E 06	3.445E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.2	1319	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0633	2.830	3832	5.547E-05	7.711E-08	2.756E 06	2.739E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.642	1.801	10.631	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	790.10	7.740E-03	.2825	1.031E-02	.3765	1.237E-02	.4515	9.904E-03	.3615
17.66	.341	791.56	7.807E-03	.2850	1.041E-02	.3801	1.250E-02	.4562	9.998E-03	.3650
18.01	.348	791.37	7.799E-03	.2847	1.040E-02	.3796	1.248E-02	.4556	9.986E-03	.3645
18.35	.355	791.00	7.782E-03	.2841	1.037E-02	.3787	1.245E-02	.4544	9.962E-03	.3637
18.70	.361	789.90	7.732E-03	.2822	1.030E-02	.3760	1.235E-02	.4509	9.892E-03	.3611
19.04	.368	790.24	7.748E-03	.2828	1.032E-02	.3769	1.238E-02	.4520	9.914E-03	.3619
19.38	.375	790.58	7.763E-03	.2834	1.035E-02	.3777	1.241E-02	.4531	9.936E-03	.3627
19.72	.381	789.81	7.729E-03	.2821	1.030E-02	.3758	1.235E-02	.4507	9.888E-03	.3609
20.06	.388	789.21	7.701E-03	.2811	1.026E-02	.3744	1.229E-02	.4488	9.849E-03	.3595
20.39	.394	791.84	7.823E-03	.2856	1.043E-02	.3809	1.253E-02	.4572	1.002E-02	.3657
20.73	.401	792.91	7.872E-03	.2874	1.051E-02	.3836	1.262E-02	.4607	1.009E-02	.3683
21.06	.407	794.32	7.938E-03	.2898	1.061E-02	.3871	1.275E-02	.4653	1.018E-02	.3716
21.39	.413	795.15	8.025E-03	.2929	1.073E-02	.3918	1.291E-02	.4714	1.030E-02	.3761
21.72	.420	794.22	7.934E-03	.2896	1.060E-02	.3869	1.274E-02	.4650	1.017E-02	.3714
22.05	.426	792.07	7.834E-03	.2860	1.045E-02	.3815	1.255E-02	.4580	1.003E-02	.3663
22.37	.432	793.63	7.907E-03	.2886	1.056E-02	.3855	1.269E-02	.4631	1.014E-02	.3700
22.69	.439	794.38	7.942E-03	.2899	1.061E-02	.3874	1.275E-02	.4656	1.019E-02	.3718
23.02	.445	794.42	7.944E-03	.2900	1.061E-02	.3875	1.276E-02	.4661	1.019E-02	.3719
23.34	.451	793.19	7.887E-03	.2879	1.053E-02	.3844	1.265E-02	.4617	1.011E-02	.3690
23.65	.457	794.02	7.926E-03	.2894	1.059E-02	.3865	1.272E-02	.4645	1.016E-02	.3710
23.97	.463	794.43	7.946E-03	.2900	1.062E-02	.3875	1.276E-02	.4658	1.019E-02	.3720
24.29	.469	790.45	7.761E-03	.2833	1.034E-02	.3776	1.241E-02	.4529	9.933E-03	.3626

NASA/RI 0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	G P	K	REX	REK
57	8	TILE INSERT	0.175	.020	.015	2.074E 06	3.445E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.2	1319	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0633	2.830	3832	5.547E-05	7.711E-08	2.756E 06	2.739E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
11.642	1.801	10.631	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	789.79	7.727E-03	.2821	1.029E-02	.3757	1.234E-02	.4505	9.885E-03	.3608
24.91	.482	794.16	7.934E-03	.2896	1.060E-02	.3869	1.274E-02	.4650	1.017E-02	.3714
25.22	.487	791.91	7.829E-03	.2858	1.044E-02	.3812	1.254E-02	.4576	1.003E-02	.3660
25.53	.493	789.27	7.707E-03	.2814	1.026E-02	.3747	1.230E-02	.4492	9.858E-03	.3599
25.83	.499	783.16	7.431E-03	.2713	9.858E-03	.3599	1.178E-02	.4301	9.474E-03	.3458
26.14	.505	663.63	2.988E-03	.1091	3.741E-03	.1366	4.280E-03	.1562	3.627E-03	.1324

AEDC (ARO.INC.) ARNOLD AFS. TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OHAO
V41H-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
57	8	TILE INSERT	0.175	.020	.015	2.074E 06	3.445E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREHEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.2	1319	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0633	2.830	3832	5.547E-05	7.711E-08	2.756E 06	2.739E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.642	1.801	10.631	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.790	548.39	547.31	545.14	544.99	544.94	544.41	544.08	544.06	525.44	526.69
1.787	553.47	553.04	549.57	547.66	546.58	545.38	544.79	544.47	526.25	527.64
2.783	556.99	556.64	551.26	549.80	547.90	546.17	545.38	544.94	527.28	528.85
3.780	559.84	559.49	553.56	551.67	549.09	546.90	545.93	545.41	528.09	529.97
4.776	562.30	561.89	555.63	553.36	550.21	547.60	546.40	545.82	528.98	530.87
5.773	564.52	564.09	557.52	554.96	551.29	548.28	546.93	546.20	530.02	532.03
6.769	566.57	566.11	559.26	556.47	552.34	548.92	547.40	546.61	531.14	533.19
7.766	568.47	567.93	560.91	557.92	553.39	549.56	547.87	546.99	532.21	534.31
8.763	570.20	569.71	562.47	559.31	554.40	550.18	548.31	547.40	533.19	535.30
9.759	571.95	571.35	563.97	560.65	555.39	550.65	548.74	547.78	534.04	536.23
10.673	573.44	572.81	565.30	561.80	556.30	551.40	549.18	548.10	535.16	537.17
10.756	573.56	572.93	565.42	561.98	556.38	551.46	549.21	548.16	535.25	537.30
11.742	575.08	574.42	566.80	563.22	557.34	552.07	549.68	548.54	536.37	538.51
12.749	576.54	575.88	568.13	564.47	558.33	552.71	550.15	548.95	537.44	539.45
13.745	577.91	577.22	569.39	565.62	559.26	553.36	550.59	549.33	538.33	540.38

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH63
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
57	8	TILE INSERT	0.175	.020	.015	2.074E 06	3.445E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.2	1319	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0633	2.830	3932	5.547E-05	7.711E-08	2.756E 06	2.739E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.642	1.801	10.631	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.507	1
9.233	2
13.508	3

NASA/RI OHAO
V41d-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
58	8	TILE INSERT	0.175	.020	.015	1.688E 06	2.803E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.9	1313	29.57	30.02	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0514	2.292	3822	4.514E-05	7.694E-08	2.243E 06	2.463E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
20.866	1.797	19.878	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.108	573.07	5.577E-04	.0226	6.780E-04	.0275	7.600E-04	.0309	6.603E-04	.0268
9.55	.192	622.32	1.405E-03	.0570	1.735E-03	.0704	1.966E-03	.0798	1.686E-03	.0684
10.33	.200	711.37	3.433E-03	.1393	4.391E-03	.1783	5.104E-03	.2072	4.244E-03	.1723
10.71	.207	737.29	4.143E-03	.1682	5.367E-03	.2179	6.298E-03	.2557	5.177E-03	.2101
11.10	.214	739.98	4.021E-03	.1632	5.198E-03	.2110	6.090E-03	.2472	5.015E-03	.2036
11.48	.222	759.13	4.785E-03	.1943	6.273E-03	.2547	7.427E-03	.3015	6.039E-03	.2452
11.85	.229	769.41	5.106E-03	.2073	6.732E-03	.2733	8.008E-03	.3251	6.475E-03	.2629
12.23	.236	775.93	5.315E-03	.2157	7.035E-03	.2856	8.394E-03	.3407	6.762E-03	.2745
12.60	.244	788.03	5.716E-03	.2320	7.623E-03	.3094	9.149E-03	.3714	7.319E-03	.2971
12.98	.251	796.13	5.995E-03	.2434	8.038E-03	.3263	9.688E-03	.3933	7.711E-03	.3130
13.35	.258	796.59	6.008E-03	.2439	8.057E-03	.3271	9.714E-03	.3943	7.729E-03	.3138
13.72	.265	798.07	6.095E-03	.2474	8.188E-03	.3324	9.884E-03	.4012	7.852E-03	.3188
14.08	.272	803.13	6.245E-03	.2535	8.412E-03	.3415	1.018E-02	.4132	8.063E-03	.3273
14.45	.279	807.21	6.394E-03	.2596	8.637E-03	.3506	1.047E-02	.4252	8.275E-03	.3359
14.81	.286	807.39	6.401E-03	.2598	8.647E-03	.3510	1.049E-02	.4257	8.285E-03	.3363
15.17	.293	744.52	4.352E-03	.1767	5.659E-03	.2297	6.660E-03	.2704	5.455E-03	.2215
15.53	.300	806.41	6.365E-03	.2584	8.593E-03	.3488	1.042E-02	.4228	8.234E-03	.3342
15.89	.307	807.75	6.414E-03	.2604	8.667E-03	.3518	1.051E-02	.4268	8.304E-03	.3371
16.25	.314	807.04	6.388E-03	.2593	8.628E-03	.3502	1.046E-02	.4247	8.267E-03	.3356
16.60	.321	807.43	6.402E-03	.2599	8.650E-03	.3511	1.049E-02	.4259	8.287E-03	.3364
16.96	.328	810.92	6.532E-03	.2651	8.846E-03	.3591	1.075E-02	.4364	8.472E-03	.3439

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	RTK
58	8	TILE INSERT	0.175	.020	.015	1.688E 06	2.803E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.9	1313	29.57	30.02	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0514	2.292	3822	4.514E-05	7.694E-08	2.243E 06	2.463E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
20.886	1.797	19.878	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	812.20	6.576E-03	.2670	8.917E-03	.3620	1.085E-02	.4403	8.539E-03	.3466
17.66	.341	812.45	6.587E-03	.2674	8.931E-03	.3626	1.086E-02	.4410	8.552E-03	.3472
18.01	.348	813.29	6.619E-03	.2687	8.979E-03	.3645	1.093E-02	.4436	8.597E-03	.3490
18.35	.355	811.62	6.558E-03	.2662	8.885E-03	.3607	1.080E-02	.4385	8.509E-03	.3454
18.70	.361	792.27	5.862E-03	.2380	7.840E-03	.3183	9.430E-03	.3828	7.524E-03	.3054
19.04	.368	812.35	6.584E-03	.2673	8.926E-03	.3624	1.086E-02	.4407	8.548E-03	.3470
19.38	.375	813.24	6.617E-03	.2686	8.976E-03	.3644	1.092E-02	.4435	8.595E-03	.3489
19.72	.381	810.77	6.527E-03	.2650	8.839E-03	.3588	1.074E-02	.4360	8.465E-03	.3436
20.06	.388	811.88	6.531E-03	.2651	8.843E-03	.3591	1.075E-02	.4363	8.471E-03	.3439
20.39	.394	813.25	6.618E-03	.2687	8.978E-03	.3645	1.093E-02	.4435	8.596E-03	.3490
20.73	.401	814.34	6.658E-03	.2703	9.039E-03	.3670	1.101E-02	.4469	8.654E-03	.3513
21.06	.407	815.69	6.708E-03	.2723	9.116E-03	.3701	1.111E-02	.4510	8.726E-03	.3542
21.39	.413	817.70	6.783E-03	.2754	9.231E-03	.3747	1.126E-02	.4573	8.834E-03	.3586
21.72	.420	817.58	6.779E-03	.2752	9.224E-03	.3745	1.125E-02	.4569	8.828E-03	.3584
22.05	.426	814.68	6.671E-03	.2708	9.059E-03	.3678	1.103E-02	.4479	8.673E-03	.3521
22.37	.432	814.78	6.675E-03	.2710	9.065E-03	.3680	1.104E-02	.4482	8.678E-03	.3523
22.69	.439	817.22	6.766E-03	.2747	9.204E-03	.3737	1.123E-02	.4558	8.809E-03	.3576
23.02	.445	816.82	6.751E-03	.2740	9.181E-03	.3727	1.120E-02	.4545	8.787E-03	.3567
23.34	.451	816.58	6.742E-03	.2737	9.168E-03	.3722	1.118E-02	.4538	8.775E-03	.3562
23.65	.457	816.28	6.730E-03	.2732	9.150E-03	.3714	1.116E-02	.4528	8.758E-03	.3555
23.97	.463	816.93	6.755E-03	.2742	9.188E-03	.3730	1.121E-02	.4549	8.794E-03	.3570
24.29	.469	814.06	6.649E-03	.2699	9.025E-03	.3664	1.099E-02	.4461	8.640E-03	.3508

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OHAO
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
58	8	TILE INSERT	0.175	.020	.015	1.688E 06	2.803E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.9	1313	29.57	30.02	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0514	2.292	3822	4.514E-05	7.694E-08	2.243E 06	2.463E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.686	1.797	19.878	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	811.39	6.551E-03	.2659	8.875E-03	.3603	1.079E-02	.4380	8.500E-03	.3450
24.91	.482	813.73	6.637E-03	.2694	9.006E-03	.3656	1.096E-02	.4451	8.623E-03	.3501
25.22	.487	812.40	6.588E-03	.2675	8.932E-03	.3626	1.086E-02	.4411	8.553E-03	.3472
25.53	.493	810.82	6.531E-03	.2651	8.844E-03	.3590	1.075E-02	.4363	8.470E-03	.3438
25.83	.499	806.70	6.378E-03	.2589	8.613E-03	.3496	1.044E-02	.4239	8.253E-03	.3350
26.14	.505	742.23	4.288E-03	.1741	5.569E-03	.2261	6.548E-03	.2658	5.369E-03	.2180

NASA/RI OH69
V-15-E92

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
58	8	TILE INSERT	0.175	.020	.015	1.688E 06	2.803E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.9	1313	29.57	30.02	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0514	2.292	3822	4.514E-05	7.694E-08	2.243E 06	2.463E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
20.886	1.797	19.878	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.788	542.76	541.82	539.82	539.67	539.67	539.05	538.73	538.73	522.60	523.28
1.785	547.37	546.09	542.94	542.09	541.15	540.00	539.41	539.17	522.96	523.82
2.781	550.53	550.23	545.38	544.03	542.32	540.76	539.97	539.59	523.55	524.63
3.778	553.09	552.80	547.46	545.70	543.38	541.41	540.47	539.97	524.45	525.62
4.774	555.36	554.99	549.30	547.25	544.44	542.03	540.91	540.35	525.26	526.38
5.771	557.34	556.46	550.99	548.69	545.41	542.65	541.35	540.73	525.98	527.28
6.767	559.20	558.76	552.60	550.06	546.37	543.23	541.79	541.12	526.65	527.95
7.764	560.91	560.45	554.08	551.37	547.28	543.82	542.20	541.47	527.50	528.85
8.761	562.53	562.01	555.48	552.63	548.22	544.38	542.62	541.76	528.40	529.79
9.757	564.06	563.51	556.85	553.82	549.12	544.94	543.03	542.15	529.25	530.60
10.754	565.48	564.93	558.15	555.02	550.03	545.52	543.47	542.53	529.93	531.36
11.750	566.83	566.25	559.40	556.15	550.88	546.11	543.85	542.88	530.60	532.03
12.747	568.16	567.55	560.59	557.23	551.75	546.67	544.29	543.20	531.54	532.97
13.743	569.42	568.82	561.78	558.33	552.60	547.22	544.70	543.53	532.39	533.82
14.740	570.63	570.00	562.88	559.34	553.47	547.81	545.11	543.91	533.10	534.58
15.737	571.81	571.12	564.00	560.36	554.28	548.42	545.55	544.29	533.72	535.21
16.733	572.96	572.30	565.04	561.37	555.13	548.98	545.99	544.61	534.58	536.01
17.730	574.04	573.36	566.08	562.33	555.92	549.56	546.40	544.99	535.43	536.95
18.726	575.10	574.42	567.09	563.28	556.73	550.15	546.84	545.38	536.32	537.66
19.247	575.65	574.96	567.61	563.77	557.17	550.47	547.08	545.55	536.64	538.02
19.723	576.16	575.42	568.07	564.21	557.54	550.73	547.28	545.73	536.95	538.42

AEDC (ARO, INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OHAO
V41B-E9A

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
58	8	TILE INSERT	0.175	.020	.015	1.688E 06	2.803E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.9	1313	29.57	30.02	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
45.6	.0514	2.292	3822	4.514E-05	7.694E-08	2.243E 06	2.463E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.886	1.797	19.878	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
20.719	577.16	576.45	569.05	565.13	558.33	551.34	547.72	546.14	537.71	539.04
21.716	578.11	577.19	569.83	566.02	559.43	551.84	548.16	546.46	538.38	539.89

C-

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41H-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
58	8	TILE INSERT	0.175	.020	.015	1.688E 06	2.803E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.9	1313	29.57	30.02	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0514	2.292	3822	4.514E-05	7.694E-08	2.243E 06	2.463E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.886	1.797	19.878	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
6.530	1
11.823	2
16.646	3
20.340	4

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
69	8	TILE INSERT	0.175	.020	.015	1.690E 06	2.807E 0_

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	490.8	1306	39.31	39.99	30.00	-9.31	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0511	2.277	3813	4.508E-05	7.656E-08	2.245E 06	2.453E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
13.371	1.801	12.360	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
8.15	.188	572.09	6.399E-04	.0261	7.784E-04	.0317	8.728E-04	.0356	7.250E-04	.0296
8.60	.166	588.93	9.840E-04	.0401	1.203E-03	.0490	1.354E-03	.0552	1.118E-03	.0456
9.05	.175	602.69	1.283E-03	.0523	1.576E-03	.0642	1.779E-03	.0725	1.462E-03	.0596
9.49	.183	703.58	4.131E-03	.1684	5.280E-03	.2152	6.132E-03	.2499	4.824E-03	.1966
9.93	.192	708.21	4.219E-03	.1720	5.398E-03	.2200	6.275E-03	.2558	4.930E-03	.2009
10.37	.200	743.16	5.630E-03	.2297	7.359E-03	.3000	8.687E-03	.3541	6.666E-03	.2717
10.81	.209	762.86	6.205E-03	.2529	8.169E-03	.3329	9.704E-03	.3955	7.375E-03	.3006
11.24	.217	776.18	6.745E-03	.2749	8.951E-03	.3648	1.070E-02	.4362	8.055E-03	.3283
11.67	.226	787.29	7.216E-03	.2941	9.644E-03	.3931	1.159E-02	.4726	8.654E-03	.3527
12.10	.234	797.30	7.660E-03	.3122	1.031E-02	.4200	1.246E-02	.5077	9.222E-03	.3759
12.52	.242	802.34	7.891E-03	.3216	1.065E-02	.4342	1.291E-02	.5263	9.519E-03	.3880
12.94	.250	805.42	8.035E-03	.3275	1.087E-02	.4431	1.320E-02	.5380	9.705E-03	.3956
13.36	.258	804.16	8.069E-03	.3289	1.092E-02	.4452	1.327E-02	.5408	9.750E-03	.3974
13.78	.266	804.77	8.004E-03	.3262	1.082E-02	.4412	1.314E-02	.5355	9.666E-03	.3940
14.19	.274	808.44	8.178E-03	.3333	1.109E-02	.4519	1.349E-02	.5497	9.890E-03	.4031
14.60	.282	812.21	8.356E-03	.3406	1.130E-02	.4630	1.385E-02	.5645	1.012E-02	.4126
15.01	.290	812.30	8.360E-03	.3408	1.137E-02	.4633	1.386E-02	.5649	1.013E-02	.4128
15.41	.298	811.20	8.262E-03	.3367	1.122E-02	.4571	1.366E-02	.5566	9.999E-03	.4076
15.81	.306	811.74	8.335E-03	.3397	1.133E-02	.4617	1.381E-02	.5627	1.009E-02	.4114
14.21	.313	810.82	8.291E-03	.3379	1.126E-02	.4590	1.372E-02	.5591	1.004E-02	.4091
16.61	.321	810.46	8.275E-03	.3373	1.124E-02	.4579	1.368E-02	.5577	1.002E-02	.4083

AEDC (ARO.INC.) ARNOLD AFS. TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
59	8	TILE INSERT	0.175	.020	.015	1.690E 06	2.807E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	490.8	1306	39.31	39.99	30.00	-9.31	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RF/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0511	2.277	3813	4.508E-05	7.656E-08	2.245E 06	2.453E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.371	1.801	12.360	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.00	.329	R15.02	8.490E-03	.3461	1.157E-02	.4714	1.413E-02	.5757	1.030E-02	.4197
17.39	.336	R14.98	8.489E-03	.3460	1.156E-02	.4713	1.412E-02	.5756	1.030E-02	.4196
17.77	.344	R15.93	8.534E-03	.3478	1.163E-02	.4742	1.422E-02	.5794	1.035E-02	.4220
18.16	.351	R14.58	8.470E-03	.3452	1.153E-02	.4701	1.408E-02	.5740	1.027E-02	.4186
18.54	.358	R13.89	8.437E-03	.3439	1.148E-02	.4681	1.402E-02	.5713	1.023E-02	.4169
18.92	.366	R14.18	8.452E-03	.3445	1.151E-02	.4690	1.404E-02	.5724	1.025E-02	.4176
19.29	.373	R14.70	8.476E-03	.3455	1.154E-02	.4705	1.410E-02	.5745	1.028E-02	.4190
19.66	.380	R13.41	8.415E-03	.3430	1.145E-02	.4667	1.397E-02	.5694	1.020E-02	.4157
20.03	.387	R12.37	8.367E-03	.3410	1.138E-02	.4637	1.387E-02	.5653	1.014E-02	.4131
20.40	.394	R15.47	8.514E-03	.3470	1.160E-02	.4729	1.417E-02	.5777	1.033E-02	.4209
20.76	.401	R16.78	8.576E-03	.3496	1.170E-02	.4768	1.430E-02	.5829	1.041E-02	.4243
21.12	.408	R15.39	8.558E-03	.3488	1.167E-02	.4757	1.426E-02	.5814	1.039E-02	.4233
21.48	.415	R18.75	8.671E-03	.3534	1.185E-02	.4828	1.450E-02	.5910	1.053E-02	.4293
21.84	.422	R16.73	8.574E-03	.3495	1.170E-02	.4767	1.430E-02	.5828	1.041E-02	.4242
22.19	.429	R15.61	8.521E-03	.3473	1.161E-02	.4734	1.419E-02	.5783	1.034E-02	.4213
22.54	.436	R17.37	8.605E-03	.3507	1.174E-02	.4787	1.436E-02	.5854	1.045E-02	.4258
22.88	.442	R15.34	8.652E-03	.3527	1.182E-02	.4816	1.446E-02	.5894	1.051E-02	.4283
23.23	.449	R16.47	8.563E-03	.3490	1.168E-02	.4760	1.427E-02	.5818	1.039E-02	.4236
23.57	.456	R16.99	8.588E-03	.3500	1.172E-02	.4776	1.433E-02	.5839	1.042E-02	.4249
23.91	.462	R15.87	8.583E-03	.3498	1.171E-02	.4772	1.431E-02	.5835	1.042E-02	.4246
24.24	.469	R15.08	8.497E-03	.3463	1.158E-02	.4718	1.414E-02	.5762	1.031E-02	.4201
24.57	.475	R13.35	8.415E-03	.3430	1.145E-02	.4667	1.397E-02	.5694	1.020E-02	.4157

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
59	8	TILE INSERT	0.175	.020	.015	1.690E 06	2.807E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	490.9	1306	39.31	39.99	30.00	-9.31	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0511	2.277	3813.	4.508E-05	7.656E-08	2.245E 06	2.453E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.371	1.801	12.360	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.481	816.99	8.589E-03	.3501	1.172E-02	.4776	1.433E-02	.5840	1.043E-02	.4250
25.23	.488	815.94	8.539E-03	.3480	1.164E-02	.4745	1.422E-02	.5797	1.036E-02	.4223
25.55	.494	813.83	8.439E-03	.3440	1.149E-02	.4682	1.402E-02	.5713	1.023E-02	.4169
25.87	.500	809.89	8.111E-03	.3306	1.098E-02	.4477	1.335E-02	.5441	9.803E-03	.3996

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
59	8	TILE INSERT	0.175	.020	.015	1.690E 06	2.807E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	490.8	1306	39.31	39.99	30.00	-9.31	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0511	2.277	3813	4.508E-05	7.656E-08	2.245E 06	2.453E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.371	1.801	12.360	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.790	534.74	534.12	532.43	532.34	532.43	531.87	531.63	531.72	525.12	526.96
1.787	539.14	539.47	535.84	535.19	534.33	533.09	532.49	532.31	526.69	529.21
2.783	542.15	542.65	538.39	537.28	535.72	534.03	533.20	532.88	528.49	531.27
3.780	544.55	545.11	540.47	539.05	536.99	534.63	533.83	533.35	530.46	533.46
4.776	546.72	547.25	542.29	540.67	538.11	535.57	534.39	533.86	532.52	535.79
5.773	548.63	549.15	544.00	542.15	539.17	536.31	534.95	534.33	534.36	537.75
6.769	550.44	550.94	545.58	543.56	540.20	537.02	535.48	534.83	536.14	539.62
7.766	552.10	552.57	547.05	544.88	541.23	537.70	536.01	535.25	538.02	541.54
8.763	553.68	554.11	548.45	546.14	542.18	538.35	536.52	535.69	540.02	543.54
9.759	555.19	555.57	549.83	547.40	543.15	538.97	536.99	536.10	541.98	545.58
10.756	556.59	556.96	551.14	548.57	544.08	539.64	537.49	536.58	543.67	547.32
11.752	557.95	558.30	552.39	549.74	544.99	540.26	537.96	536.99	545.45	549.09
12.155	558.50	558.83	552.89	550.18	545.38	540.53	538.17	537.20	546.25	549.89
12.749	559.26	559.58	553.59	550.85	545.90	540.91	538.46	537.40	547.23	550.95
13.745	560.53	560.82	554.75	551.93	546.81	541.56	538.94	537.85	549.31	552.85
14.742	561.75	562.01	555.89	552.95	547.84	542.18	539.41	538.29	550.99	554.58

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
59	8	TILE INSERT	0.175	.020	.015	1.690E 06	2.807E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	490.8	1306	39.31	39.99	30.00	-9.31	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0511	2.277	3813	4.508E-05	7.656E-08	2.245E 06	2.453E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.371	1.801	12.360	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.539	1
9.727	2
12.433	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

N1S1/F1 0H43
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
40	8	TILE INSERT	0.175	.020	.015	1.484E 06	2.466E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.4	1301	39.43	40.02	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0446	1.988	3805	3.952E-05	7.623E-08	1.972E 06	2.291E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
17.593	1.801	16.582	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
8.15	.158	562.65	4.896E-04	.0214	5.944E-04	.0259	6.655E-04	.0291	5.540E-04	.0242
8.60	.166	576.04	7.193E-04	.0314	8.766E-04	.0383	9.843E-04	.0430	8.158E-04	.0356
9.05	.175	586.14	9.015E-04	.0394	1.102E-03	.0481	1.240E-03	.0541	1.024E-03	.0447
9.49	.183	602.44	1.212E-03	.0529	1.485E-03	.0650	1.681E-03	.0734	1.381E-03	.0603
9.93	.192	713.16	3.945E-03	.1722	5.067E-03	.2212	5.907E-03	.2579	4.619E-03	.2017
10.37	.200	756.45	5.324E-03	.2324	6.996E-03	.3054	8.299E-03	.3623	6.319E-03	.2759
10.81	.209	745.94	4.972E-03	.2170	6.495E-03	.2835	7.609E-03	.3348	5.881E-03	.2567
11.24	.217	703.92	5.582E-03	.2437	7.367E-03	.3216	8.770E-03	.3828	6.643E-03	.2900
11.67	.226	706.69	5.679E-03	.2479	7.508E-03	.3278	8.949E-03	.3907	6.766E-03	.2954
12.10	.234	781.19	6.205E-03	.2709	8.278E-03	.3614	9.937E-03	.4338	7.432E-03	.3244
12.52	.242	792.67	6.643E-03	.2900	8.930E-03	.3898	1.079E-02	.4709	7.992E-03	.3489
12.94	.250	800.15	6.940E-03	.3030	9.377E-03	.4094	1.137E-02	.4965	8.375E-03	.3656
13.36	.258	805.02	7.142E-03	.3118	9.683E-03	.4227	1.178E-02	.5142	8.636E-03	.3770
13.78	.266	806.53	7.202E-03	.3144	9.775E-03	.4267	1.190E-02	.5195	8.714E-03	.3804
14.19	.274	806.43	7.197E-03	.3142	9.767E-03	.4264	1.189E-02	.5191	8.707E-03	.3801
14.60	.282	810.20	7.355E-03	.3211	1.001E-02	.4370	1.221E-02	.5332	8.913E-03	.3891
15.01	.290	813.66	7.499E-03	.3274	1.023E-02	.4467	1.251E-02	.5462	9.102E-03	.3973
15.41	.298	812.64	7.457E-03	.3255	1.017E-02	.4438	1.242E-02	.5423	9.046E-03	.3949
15.81	.306	809.79	7.339E-03	.3204	9.985E-03	.4359	1.218E-02	.5317	8.892E-03	.3882
16.21	.313	812.23	7.440E-03	.3248	1.014E-02	.4427	1.239E-02	.5408	9.024E-03	.3939
16.61	.321	812.59	7.451E-03	.3253	1.016E-02	.4434	1.241E-02	.5419	9.039E-03	.3946

NASA/ST CHAS
V41B-E9A

AEDC (AHO.INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
60	8	TILE INSERT	0.175	.020	.015	1.484E 06	2.466E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.4	1301	39.43	40.02	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0446	1.988	3805	3.952E-05	7.623E-08	1.972E 06	2.291E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.593	1.801	16.582	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.00	.329	R12.59	7.455E-03	.3255	1.016E-02	.4437	1.242E-02	.5422	9.044E-03	.3948
17.39	.336	R16.16	7.605E-03	.3320	1.040E-02	.4538	1.273E-02	.5558	9.240E-03	.4034
17.77	.344	R14.84	7.550E-03	.3296	1.031E-02	.4501	1.262E-02	.5508	9.167E-03	.4002
18.16	.351	R15.69	7.585E-03	.3311	1.037E-02	.4525	1.269E-02	.5540	9.214E-03	.4022
18.54	.358	R15.88	7.593E-03	.3315	1.038E-02	.4531	1.271E-02	.5548	9.225E-03	.4027
18.92	.366	R14.20	7.523E-03	.3284	1.027E-02	.4483	1.256E-02	.5483	9.133E-03	.3987
19.29	.373	R14.08	7.518E-03	.3282	1.026E-02	.4480	1.255E-02	.5479	9.126E-03	.3984
19.66	.380	R15.33	7.571E-03	.3305	1.034E-02	.4515	1.266E-02	.5527	9.195E-03	.4014
20.03	.387	R13.37	7.489E-03	.3269	1.022E-02	.4460	1.249E-02	.5452	9.088E-03	.3967
20.40	.394	R12.90	7.469E-03	.3261	1.019E-02	.4447	1.245E-02	.5435	9.062E-03	.3956
20.76	.401	R15.56	7.580E-03	.3309	1.036E-02	.4521	1.268E-02	.5535	9.207E-03	.4019
21.12	.408	R17.62	7.668E-03	.3347	1.049E-02	.4581	1.286E-02	.5616	9.323E-03	.4070
21.48	.415	R16.31	7.697E-03	.3360	1.054E-02	.4601	1.292E-02	.5642	9.361E-03	.4086
21.84	.422	R13.78	7.759E-03	.3387	1.064E-02	.4643	1.306E-02	.5700	9.442E-03	.4122
22.19	.429	R16.46	7.619E-03	.3326	1.042E-02	.4548	1.276E-02	.5571	9.258E-03	.4042
22.54	.436	R16.17	7.607E-03	.3321	1.040E-02	.4540	1.274E-02	.5560	9.243E-03	.4035
22.88	.442	R17.05	7.669E-03	.3348	1.050E-02	.4582	1.287E-02	.5617	9.324E-03	.4071
23.23	.449	R16.74	7.716E-03	.3368	1.057E-02	.4613	1.296E-02	.5659	9.385E-03	.4097
23.57	.456	R16.44	7.619E-03	.3326	1.042E-02	.4547	1.276E-02	.5570	9.258E-03	.4041
23.91	.462	R17.53	7.665E-03	.3346	1.049E-02	.4579	1.286E-02	.5613	9.318E-03	.4068
24.24	.469	R18.09	7.689E-03	.3357	1.053E-02	.4595	1.291E-02	.5635	9.350E-03	.4082
24.57	.475	R15.76	7.591E-03	.3314	1.037E-02	.4529	1.270E-02	.5545	9.221E-03	.4026

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION,SIZE, X/L	GAP	K	REX	REK
60	8	TILE INSERT	0.175	.020	.015	1.484E 06	2.466E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.4	1301	39.43	40.02	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0446	1.988	3805	3.552E-05	7.623E-08	1.972E 06	2.291E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.553	1.801	16.592	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.491	814.13	7.522E-03	.3284	1.027E-02	.4482	1.256E-02	.5482	9.131E-03	.3986
25.23	.488	815.03	7.686E-03	.3356	1.052E-02	.4593	1.290E-02	.5632	9.347E-03	.4080
25.55	.494	816.93	7.639E-03	.3335	1.045E-02	.4561	1.280E-02	.5589	9.284E-03	.4053
25.87	.500	815.83	7.594E-03	.3315	1.038E-02	.4531	1.271E-02	.5548	9.225E-03	.4027

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
60	B	TILE INSERT	0.175	.020	.015	1.484E 06	2.466E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.4	1301	39.43	40.02	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0446	1.988	3805	3.552E-05	7.623E-08	1.972E 06	2.291E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
17.593	1.801	16.582	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.790	528.81	528.31	526.70	526.67	526.73	526.16	525.92	525.98	527.91	530.19
1.787	532.97	533.29	529.88	529.29	528.46	527.32	526.73	526.49	529.30	531.85
2.783	535.75	536.25	532.23	531.25	529.79	528.16	527.41	527.00	530.91	533.78
3.780	538.02	538.58	534.18	532.94	530.95	528.93	528.01	527.50	532.52	535.65
4.776	540.03	540.56	535.93	534.45	532.02	529.67	528.54	528.01	534.13	537.30
5.773	541.82	542.32	537.49	535.81	533.03	530.33	529.02	528.46	535.65	538.91
6.769	543.53	544.00	539.00	537.14	533.97	530.98	529.56	528.84	537.39	540.78
7.766	545.05	545.52	540.38	538.35	534.92	531.60	530.00	529.26	539.22	542.47
8.763	546.52	546.98	541.68	539.56	535.84	532.20	530.48	529.70	540.87	544.12
9.759	547.95	548.31	542.97	540.70	536.72	532.82	530.92	530.12	542.47	545.72
10.756	549.27	549.65	544.20	541.79	537.61	533.41	531.40	530.51	544.03	547.18
11.752	550.53	550.91	545.35	542.80	538.46	534.03	531.84	530.89	545.67	548.87
12.749	551.75	552.10	546.49	543.91	539.32	534.60	532.29	531.28	547.40	550.46
13.745	552.95	553.30	547.57	544.97	540.17	535.19	532.76	531.69	548.96	552.01
14.742	554.08	554.40	548.63	545.96	541.00	535.81	533.20	532.11	550.42	553.56
15.739	555.19	555.45	549.71	546.90	541.79	536.40	533.65	532.46	551.92	555.06
16.008	555.43	555.77	549.97	547.17	542.03	536.58	533.77	532.61	552.41	555.46
16.735	556.24	556.53	550.70	547.87	542.62	537.02	534.12	532.88	553.60	556.61
17.732	557.31	557.54	551.67	548.80	543.41	537.58	534.60	533.26	555.20	558.24

NASA/RI 0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
40	8	TILE INSERT	0.175	.020	.015	1.484E 06	2.466E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.4	1301	39.43	40.02	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0446	1.988	3805	3.552E-05	7.623E-08	1.972E 06	2.291E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.593	1.801	16.582	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.901	1
11.601	2
15.716	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
61	8	TILE INSERT	0.175	.020	.015	1.479E 06	2.457E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.7	1298	29.64	30.03	30.00	.36	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0443	1.976	3801	3.935E-05	7.608E-08	1.966E 06	2.283E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.425	1.797	24.417	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.108	573.55	5.201E-04	.0228	6.336E-04	.0278	7.112E-04	.0312	6.168E-04	.0270
9.55	.192	613.04	1.136E-03	.0498	1.402E-03	.0614	1.587E-03	.0695	1.362E-03	.0597
10.33	.200	682.43	2.491E-03	.1091	3.156E-03	.1383	3.643E-03	.1596	3.054E-03	.1338
10.71	.207	716.34	3.293E-03	.1443	4.239E-03	.1857	4.950E-03	.2159	4.093E-03	.1793
11.10	.214	727.84	3.584E-03	.1570	4.640E-03	.2033	5.442E-03	.2384	4.476E-03	.1961
11.48	.222	734.04	3.745E-03	.1641	4.864E-03	.2131	5.719E-03	.2506	4.689E-03	.2054
11.85	.229	752.44	4.241E-03	.1858	5.565E-03	.2438	6.594E-03	.2889	5.356E-03	.2347
12.23	.236	766.98	4.655E-03	.2039	6.161E-03	.2699	7.350E-03	.3220	5.922E-03	.2594
12.60	.244	771.86	4.799E-03	.2102	6.371E-03	.2791	7.618E-03	.3337	6.120E-03	.2681
12.98	.251	782.86	5.133E-03	.2249	6.862E-03	.3006	8.252E-03	.3615	6.585E-03	.2885
13.35	.258	786.65	5.252E-03	.2301	7.038E-03	.3083	8.480E-03	.3715	6.751E-03	.2958
13.72	.265	786.64	5.251E-03	.2301	7.037E-03	.3083	8.479E-03	.3715	6.751E-03	.2958
14.08	.272	793.32	5.465E-03	.2394	7.356E-03	.3223	8.896E-03	.3897	7.052E-03	.3089
14.45	.279	797.72	5.609E-03	.2457	7.573E-03	.3318	9.182E-03	.4022	7.256E-03	.3179
14.81	.286	799.70	5.674E-03	.2486	7.673E-03	.3361	9.313E-03	.4080	7.350E-03	.3220
15.17	.293	799.20	5.658E-03	.2479	7.648E-03	.3350	9.280E-03	.4065	7.326E-03	.3210
15.53	.300	799.94	5.682E-03	.2489	7.685E-03	.3367	9.329E-03	.4087	7.361E-03	.3225
15.89	.307	801.01	5.718E-03	.2505	7.739E-03	.3391	9.401E-03	.4118	7.412E-03	.3247
16.25	.314	799.29	5.661E-03	.2480	7.653E-03	.3353	9.286E-03	.4068	7.331E-03	.3212
16.60	.321	800.22	5.692E-03	.2494	7.699E-03	.3373	9.348E-03	.4095	7.375E-03	.3231
16.96	.328	803.63	5.807E-03	.2544	7.874E-03	.3450	9.579E-03	.4196	7.539E-03	.3303

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
61	8	TILE INSERT	0.175	.020	.015	1.479E 06	2.457E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.7	1298	29.64	30.03	30.00	.36	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0443	1.974	3801	3.935E-05	7.608E-08	1.966E 06	2.283E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.425	1.797	24.417	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	804.69	5.840E-03	.2558	7.924E-03	.3471	9.645E-03	.4226	7.586E-03	.3323
17.66	.341	805.59	5.870E-03	.2572	7.971E-03	.3492	9.708E-03	.4253	7.630E-03	.3343
18.01	.348	805.75	5.879E-03	.2576	7.984E-03	.3498	9.725E-03	.4261	7.643E-03	.3348
18.35	.355	804.78	5.846E-03	.2561	7.934E-03	.3476	9.658E-03	.4231	7.595E-03	.3327
18.70	.361	804.68	5.843E-03	.2560	7.929E-03	.3474	9.652E-03	.4228	7.591E-03	.3325
19.04	.368	804.80	5.847E-03	.2562	7.935E-03	.3476	9.660E-03	.4232	7.597E-03	.3328
19.38	.375	805.59	5.874E-03	.2573	7.976E-03	.3494	9.714E-03	.4256	7.635E-03	.3345
19.72	.381	803.61	5.807E-03	.2544	7.873E-03	.3449	9.578E-03	.4196	7.539E-03	.3303
20.06	.388	803.33	5.797E-03	.2540	7.859E-03	.3443	9.559E-03	.4188	7.525E-03	.3297
20.39	.394	804.97	5.853E-03	.2564	7.945E-03	.3480	9.672E-03	.4237	7.605E-03	.3332
20.73	.401	805.61	5.875E-03	.2574	7.978E-03	.3495	9.716E-03	.4257	7.636E-03	.3345
21.06	.407	807.14	5.928E-03	.2597	8.058E-03	.3530	9.824E-03	.4304	7.712E-03	.3379
21.39	.413	809.34	6.004E-03	.2630	8.175E-03	.3582	9.980E-03	.4372	7.822E-03	.3427
21.72	.420	809.58	6.012E-03	.2634	8.188E-03	.3587	9.997E-03	.4379	7.834E-03	.3432
22.05	.426	806.72	5.913E-03	.2591	8.036E-03	.3521	9.795E-03	.4291	7.692E-03	.3370
22.37	.432	806.34	5.900E-03	.2585	8.016E-03	.3512	9.768E-03	.4279	7.673E-03	.3361
22.69	.439	809.44	6.007E-03	.2632	8.181E-03	.3584	9.987E-03	.4375	7.827E-03	.3429
23.02	.445	810.29	6.037E-03	.2645	8.226E-03	.3604	1.005E-02	.4402	7.870E-03	.3448
23.34	.451	809.00	5.958E-03	.2610	8.105E-03	.3551	9.885E-03	.4331	7.756E-03	.3398
23.65	.457	808.66	5.981E-03	.2620	8.139E-03	.3566	9.932E-03	.4351	7.789E-03	.3412
23.97	.463	810.80	6.055E-03	.2653	8.253E-03	.3616	1.008E-02	.4418	7.895E-03	.3459
24.29	.469	807.61	5.944E-03	.2604	8.084E-03	.3542	9.858E-03	.4319	7.736E-03	.3389

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
61	8	TILE INSERT	0.175	.020	.015	1.479E 06	2.457E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.7	1298	29.64	30.03	30.00	.36	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0443	1.976	3801	3.535E-05	7.608E-08	1.966E 06	2.283E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.425	1.797	24.417	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	805.01	5.855E-03	.2565	7.948E-03	.3482	9.676E-03	.4239	7.608E-03	.3333
24.91	.482	807.22	5.931E-03	.2598	8.064E-03	.3533	9.831E-03	.4307	7.717E-03	.3381
25.22	.487	806.82	5.918E-03	.2592	8.043E-03	.3523	9.803E-03	.4295	7.698E-03	.3372
25.53	.493	804.85	5.850E-03	.2563	7.939E-03	.3478	9.666E-03	.4234	7.601E-03	.3330
25.83	.499	799.50	5.670E-03	.2484	7.666E-03	.3358	9.303E-03	.4076	7.343E-03	.3217
26.14	.505	736.52	3.812E-03	.1670	4.958E-03	.2172	5.836E-03	.2557	4.779E-03	.2094

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***.	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
61	8	TILE INSERT	0.175	.020	.015	1.479E 06	2.457E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.7	1298	29.64	30.03	30.00	.36	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0443	1.976	3801	3.935E-05	7.608E-08	1.966E 06	2.283E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.425	1.797	24.417	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.788	538.05	537.14	535.33	535.22	535.28	534.65	534.30	534.27	534.98	535.38
1.785	542.29	541.91	538.23	537.46	536.58	535.51	534.95	534.68	535.43	536.01
2.781	545.20	544.91	540.44	539.20	537.70	536.19	535.45	535.07	536.01	536.68
3.778	547.51	547.25	542.32	540.76	538.61	536.81	535.90	535.42	536.46	537.35
4.774	549.56	549.27	544.06	542.18	539.59	537.37	536.31	535.81	537.04	537.71
5.771	551.43	551.09	545.61	543.53	540.50	537.93	536.72	536.13	537.66	538.51
6.767	553.12	552.71	547.05	544.76	541.35	538.46	537.11	536.43	538.24	539.13
7.764	554.70	554.26	548.42	545.93	542.23	539.00	537.52	536.75	539.04	539.98
8.761	556.18	555.71	549.74	547.11	543.06	539.53	537.87	537.11	539.67	540.56
9.757	557.57	557.05	550.96	548.22	543.88	540.03	538.26	537.43	540.07	540.92
10.754	558.85	558.36	552.13	549.30	544.67	540.56	538.61	537.76	540.60	541.58
11.750	560.13	559.60	553.30	550.32	545.49	541.09	539.00	538.05	541.32	542.34
12.747	561.34	560.79	554.40	551.31	546.31	541.59	539.38	538.38	541.98	542.96
13.743	562.47	561.89	555.45	552.31	547.08	542.12	539.76	538.70	542.52	543.50
14.740	563.60	562.99	556.50	553.27	547.84	542.68	540.14	539.03	543.01	544.07
15.737	564.67	564.06	557.52	554.20	548.63	543.23	540.53	539.35	543.58	544.65
16.733	565.71	565.07	558.44	555.10	549.39	543.73	540.91	539.64	544.25	545.27
17.730	566.69	566.04	559.40	556.00	550.13	544.26	541.32	540.00	544.92	545.98
18.726	567.67	567.03	560.33	556.89	550.88	544.82	541.73	540.35	545.50	546.43
19.723	568.62	567.98	561.23	557.72	551.58	545.35	542.12	540.70	545.90	547.00
20.719	569.54	568.88	562.12	558.53	552.28	545.87	542.53	541.00	546.38	547.54

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
61	B	TILE INSERT	0.175	.020	.015	1.479E 06	2.457E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.7	1298	29.64	30.03	30.00	.36	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0443	1.976	3801	3.935E-05	7.608E-08	1.966E 06	2.283E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.425	1.797	24.417	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.716	570.43	569.77	562.96	559.34	553.01	546.40	542.94	541.35	547.18	548.20
22.713	571.32	570.66	563.80	560.18	553.71	546.93	543.35	541.70	547.89	548.82
23.293	571.87	571.15	564.26	560.62	554.11	547.25	543.62	541.91	548.11	549.18
23.709	572.21	571.52	564.61	560.97	554.40	547.46	543.76	542.09	548.34	549.40
24.706	573.04	572.35	565.45	561.72	555.07	548.01	544.20	542.44	548.82	549.84
25.702	573.87	573.16	566.23	562.44	555.86	548.54	544.61	542.79	549.35	550.46

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
41	8	TILE INSERT	0.175	.020	.015	1.479E 06	2.457E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.7	1298	29.64	30.03	30.00	.36	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0443	1.976	3801	3.935E-05	7.608E-08	1.966E 06	2.283E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
25.425	1.797	24.417	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
8.729	1
15.993	2
22.310	3

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
62	8	TILE INSERT	0.175	.020	.015	1.323E 06	2.198E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.7	1292	29.67	30.02	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0395	1.758	3791	3.520E-05	7.588E-08	1.759E 06	2.151E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
30.970	1.801	29.959	1000

X (IN)	X/L	TW (DEG R)	H(T0)	H(T0)/HREF	H(0.9T0)	H(.9T0)/HREF	H(.85T0)	H(.85T0)/HREF	H(.912T0)	H(.912T0)/HREF
10.33	.200	653.75	1.739E-03	.0808	2.180E-03	.1013	2.497E-03	.1161	2.113E-03	.0982
10.71	.207	692.82	2.519E-03	.1171	3.212E-03	.1493	3.724E-03	.1731	3.105E-03	.1443
11.10	.214	709.19	2.876E-03	.1337	3.695E-03	.1718	4.309E-03	.2003	3.569E-03	.1659
11.48	.222	712.81	2.957E-03	.1374	3.806E-03	.1769	4.445E-03	.2066	3.675E-03	.1708
11.85	.229	731.92	3.400E-03	.1580	4.420E-03	.2054	5.200E-03	.2417	4.261E-03	.1980
12.23	.236	752.45	3.906E-03	.1816	5.137E-03	.2388	6.097E-03	.2834	4.943E-03	.2297
12.60	.244	743.90	3.691E-03	.1716	4.831E-03	.2245	5.712E-03	.2655	4.652E-03	.2162
12.98	.251	762.71	4.173E-03	.1939	5.521E-03	.2566	6.585E-03	.3061	5.307E-03	.2467
13.35	.258	765.84	4.282E-03	.1990	5.679E-03	.2640	6.787E-03	.3155	5.457E-03	.2537
13.72	.265	777.67	4.579E-03	.2128	6.116E-03	.2843	7.349E-03	.3416	5.870E-03	.2729
14.08	.272	755.65	3.989E-03	.1854	5.255E-03	.2443	6.247E-03	.2903	5.055E-03	.2350
14.45	.279	799.46	4.945E-03	.2299	6.663E-03	.3097	8.062E-03	.3747	6.386E-03	.2968
14.81	.286	795.10	5.083E-03	.2363	6.871E-03	.3193	8.336E-03	.3875	6.582E-03	.3059
15.17	.293	796.28	5.119E-03	.2379	6.924E-03	.3218	8.407E-03	.3908	6.633E-03	.3083
15.53	.300	795.19	5.086E-03	.2364	6.875E-03	.3195	8.342E-03	.3877	6.586E-03	.3061
15.89	.307	797.67	5.161E-03	.2399	6.989E-03	.3248	8.492E-03	.3947	6.693E-03	.3111
16.25	.314	796.99	5.140E-03	.2389	6.957E-03	.3234	8.451E-03	.3928	6.664E-03	.3097
16.60	.321	798.34	5.181E-03	.2408	7.019E-03	.3263	8.533E-03	.3966	6.722E-03	.3124
16.96	.328	801.55	5.280E-03	.2454	7.169E-03	.3332	8.732E-03	.4059	6.864E-03	.3190
17.31	.335	803.72	5.347E-03	.2485	7.272E-03	.3380	8.869E-03	.4122	6.960E-03	.3235
17.66	.341	803.09	5.328E-03	.2476	7.243E-03	.3366	8.829E-03	.4104	6.932E-03	.3222

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
62	8	TILE INSERT	0.175	.020	.015	1.323E 06	2.198E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.7	1292	29.67	30.02	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0395	1.758	3791	3.520E-05	7.588E-08	1.759E 06	2.151E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
30.970	1.801	29.959	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
18.01	.348	805.65	5.408E-03	.2513	7.365E-03	.3423	8.993E-03	.4180	7.047E-03	.3276
18.35	.355	804.94	5.385E-03	.2503	7.331E-03	.3407	8.947E-03	.4159	7.015E-03	.3261
18.70	.361	803.36	5.336E-03	.2480	7.256E-03	.3372	8.847E-03	.4112	6.945E-03	.3228
19.04	.368	802.89	5.322E-03	.2473	7.233E-03	.3362	8.817E-03	.4098	6.924E-03	.3218
19.38	.375	805.48	5.403E-03	.2511	7.358E-03	.3420	8.983E-03	.4175	7.040E-03	.3272
19.72	.381	804.82	5.382E-03	.2501	7.326E-03	.3405	8.940E-03	.4155	7.010E-03	.3258
20.06	.388	803.05	5.327E-03	.2476	7.241E-03	.3366	8.827E-03	.4103	6.931E-03	.3221
20.39	.394	803.88	5.353E-03	.2488	7.281E-03	.3384	8.880E-03	.4128	6.968E-03	.3239
20.73	.401	805.43	5.401E-03	.2510	7.355E-03	.3419	8.980E-03	.4174	7.038E-03	.3271
21.06	.407	807.82	5.477E-03	.2546	7.471E-03	.3473	9.135E-03	.4246	7.147E-03	.3322
21.39	.413	808.39	5.495E-03	.2554	7.499E-03	.3486	9.173E-03	.4263	7.174E-03	.3334
21.72	.420	810.75	5.570E-03	.2589	7.616E-03	.3540	9.329E-03	.4336	7.282E-03	.3385
22.05	.426	808.05	5.484E-03	.2549	7.483E-03	.3478	9.151E-03	.4253	7.158E-03	.3327
22.37	.432	807.48	5.466E-03	.2541	7.455E-03	.3465	9.113E-03	.4236	7.132E-03	.3315
22.69	.439	808.65	5.504E-03	.2558	7.513E-03	.3492	9.191E-03	.4272	7.186E-03	.3340
23.02	.445	809.97	5.546E-03	.2578	7.578E-03	.3522	9.278E-03	.4312	7.247E-03	.3368
23.34	.451	808.18	5.488E-03	.2551	7.490E-03	.3481	9.159E-03	.4257	7.164E-03	.3330
23.65	.457	808.29	5.492E-03	.2553	7.495E-03	.3484	9.167E-03	.4261	7.170E-03	.3333
23.97	.463	809.01	5.515E-03	.2563	7.531E-03	.3500	9.214E-03	.4283	7.203E-03	.3348
24.29	.469	807.82	5.477E-03	.2546	7.473E-03	.3473	9.136E-03	.4247	7.148E-03	.3323
24.60	.475	803.48	5.341E-03	.2482	7.263E-03	.3376	8.856E-03	.4116	6.951E-03	.3231
24.91	.482	804.80	5.382E-03	.2502	7.326E-03	.3405	8.940E-03	.4155	7.011E-03	.3259

L = 4.311 FT

SERUF	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
62	8	TILE INSERT	0.175	.020	.015	1.323E 06	2.198E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.7	1292	29.67	30.02	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0395	1.758	3791	3.520E-05	7.588E-08	1.759E 06	2.151E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
30.970	1.801	29.959	1000

X (IN)	X/L	TW (DEG R)	HI(TO)	HI(TO)/HREF	HI(0.9TO)	HI(0.9TO)/HREF	HI(.85TO)	HI(.85TO)/HREF	HI(.912TO)	HI(.912TO)/HREF
25.22	.487	805.80	5.414E-03	.2516	7.374E-03	.3428	9.005E-03	.4185	7.056E-03	.3280
25.53	.493	803.02	5.327E-03	.2476	7.241E-03	.3365	8.827E-03	.4103	6.931E-03	.3221
25.83	.499	801.86	5.291E-03	.2459	7.186E-03	.3340	8.754E-03	.4069	6.879E-03	.3197
26.14	.505	785.68	4.808E-03	.2235	6.456E-03	.3001	7.792E-03	.3622	6.192E-03	.2878

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
62	8	TILE INSERT	0.175	.020	.015	1.323E 06	2.198E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.7	1292	29.67	30.02	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0395	1.758	3791	3.520E-05	7.588E-08	1.759E 06	2.151E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
30.970	1.801	29.959	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.790	535.96	535.10	533.41	533.32	533.23	532.79	532.46	532.43	521.11	522.24
1.787	539.91	539.56	536.07	535.39	534.60	533.59	533.06	532.82	521.52	522.69
2.783	542.62	542.35	538.14	537.02	535.63	534.21	533.53	533.17	522.06	523.32
3.780	544.79	544.55	539.91	538.46	536.55	534.80	533.94	533.53	522.51	523.82
4.776	546.72	546.43	541.53	539.79	537.40	535.33	534.33	533.86	522.78	524.31
5.773	548.45	548.13	543.00	541.03	538.26	535.87	534.74	534.21	523.28	524.81
6.769	550.06	549.68	544.32	542.20	539.05	536.34	535.10	534.48	524.00	525.39
7.766	551.52	551.11	545.61	543.32	539.88	536.84	535.42	534.80	524.58	526.07
8.763	552.89	552.45	546.84	544.41	540.65	537.34	535.81	535.13	525.08	526.56
9.759	554.20	553.73	548.01	545.43	541.41	537.85	536.16	535.42	525.48	526.96
10.756	555.42	554.96	549.09	546.46	542.20	538.35	536.49	535.72	525.98	527.50
11.752	556.62	556.09	550.18	547.43	542.94	538.79	536.84	536.01	526.65	528.09
12.749	557.75	557.23	551.20	548.36	543.70	539.32	537.23	536.31	527.19	528.71
13.745	558.82	558.27	552.22	549.30	544.44	539.79	537.58	536.63	527.73	529.12
14.742	559.87	559.29	553.18	550.18	545.17	540.29	537.93	536.96	528.09	529.61
15.739	560.88	560.30	554.11	551.02	545.87	540.79	538.29	537.23	528.54	529.97
16.735	561.86	561.29	555.04	551.93	546.61	541.29	538.67	537.52	529.25	530.73
17.732	562.79	562.21	555.92	552.74	547.28	541.79	539.05	537.85	529.88	531.22
18.728	563.71	563.11	556.82	553.56	547.98	542.29	539.41	538.20	530.24	531.67
19.725	564.61	563.97	557.63	554.38	548.66	542.82	539.79	538.52	530.64	532.17
20.721	565.48	564.87	558.47	555.13	549.33	543.32	540.17	538.82	531.18	532.66

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
62	8	TILE INSERT	0.175	.020	.015	1.323E 06	2.198E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.7	1292	29.67	30.02	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0395	1.758	3791	3.520E-05	7.588E-08	1.759E 06	2.151E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
30.970	1.801	29.959	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.718	566.34	565.68	559.25	555.92	550.00	543.82	540.56	539.11	531.81	533.28
22.715	567.15	566.51	560.07	556.67	550.67	544.32	540.97	539.47	532.39	533.78
23.711	567.95	567.29	560.85	557.43	551.31	544.82	541.35	539.82	532.75	534.22
24.708	568.76	568.10	561.63	558.13	551.96	545.35	541.73	540.14	533.24	534.67
25.704	569.54	568.85	562.36	558.85	552.60	545.85	542.15	540.47	533.73	535.25
26.701	570.26	569.60	563.08	559.55	553.21	546.34	542.53	540.79	534.36	535.65
27.697	571.03	570.34	563.80	560.24	553.85	546.81	542.94	541.15	534.85	536.32
28.694	571.81	571.06	564.52	560.94	554.46	547.34	543.35	541.53	535.30	536.72
29.691	572.50	571.81	565.22	561.60	555.07	547.84	543.73	541.88	535.65	537.13
29.942	572.70	572.01	565.39	561.78	555.22	547.95	543.85	541.97	535.88	537.30
30.687	573.18	572.50	565.88	562.27	555.68	548.31	544.14	542.20	536.23	537.66
31.684	573.90	573.18	566.54	562.91	556.27	548.80	544.55	542.56	536.86	538.33

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
62	8	TILE INSERT	0.175	.020	.015	1.323E 06	2.198E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.7	1292	29.67	30.02	30.00	.33	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0395	1.758	3791	3.520E-05	7.588E-08	1.759E 06	2.151E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
30.970	1.801	29.959	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
9.352	1
15.368	2
22.555	3
30.513	4

NASA/RI OH69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
43	8	TILE INSERT	0.175	.020	.015	1.319E 06	2.190E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	378.2	1298	39.48	40.00	30.00	-9.48	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0397	1.765	3801	3.516E-05	7.627E-08	1.752E 06	2.158E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.329	1.806	20.315	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
8.15	.158	566.16	4.695E-04	.0218	5.707E-04	.0264	6.397E-04	.0296	5.317E-04	.0246
8.60	.166	574.48	5.989E-04	.0278	7.299E-04	.0338	8.194E-04	.0380	6.793E-04	.0315
9.05	.175	589.01	8.364E-04	.0388	1.024E-03	.0475	1.153E-03	.0534	9.513E-04	.0441
9.49	.183	635.61	1.695E-03	.0786	2.108E-03	.0977	2.401E-03	.1113	1.947E-03	.0902
9.93	.192	759.08	4.872E-03	.2258	6.418E-03	.2974	7.628E-03	.3535	5.792E-03	.2685
10.37	.200	725.97	3.923E-03	.1818	5.076E-03	.2353	5.952E-03	.2758	4.614E-03	.2139
10.81	.209	733.97	4.122E-03	.1910	5.354E-03	.2481	6.294E-03	.2917	4.859E-03	.2252
11.24	.217	752.57	4.672E-03	.2165	6.131E-03	.2841	7.265E-03	.3367	5.542E-03	.2568
11.67	.226	768.21	5.162E-03	.2392	6.836E-03	.3168	8.160E-03	.3782	6.156E-03	.2853
12.10	.234	789.48	5.875E-03	.2723	7.888E-03	.3656	9.519E-03	.4412	7.064E-03	.3274
12.52	.242	799.09	6.218E-03	.2882	8.404E-03	.3895	1.020E-02	.4725	7.506E-03	.3479
12.94	.250	805.37	6.450E-03	.2989	8.757E-03	.4058	1.066E-02	.4942	7.806E-03	.3618
13.36	.258	812.51	6.644E-03	.3079	9.055E-03	.4196	1.106E-02	.5126	8.059E-03	.3735
13.78	.266	809.02	6.588E-03	.3053	8.968E-03	.4156	1.095E-02	.5073	7.986E-03	.3701
14.19	.274	724.96	3.867E-03	.1792	4.999E-03	.2317	5.856E-03	.2714	4.546E-03	.2107
14.60	.282	815.62	6.953E-03	.3222	9.534E-03	.4418	1.171E-02	.5425	8.464E-03	.3923
15.01	.290	827.74	7.034E-03	.3260	9.661E-03	.4477	1.188E-02	.5505	8.571E-03	.3972
15.41	.298	817.98	6.928E-03	.3211	9.495E-03	.4400	1.165E-02	.5401	8.431E-03	.3907
15.81	.306	818.57	6.951E-03	.3221	9.530E-03	.4417	1.170E-02	.5423	8.461E-03	.3921
16.21	.313	819.53	6.988E-03	.3238	9.588E-03	.4444	1.178E-02	.5459	8.510E-03	.3944
16.61	.321	819.83	6.999E-03	.3244	9.606E-03	.4452	1.180E-02	.5471	8.525E-03	.3951

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
63	8	TILE INSERT	0.175	.020	.015	1.319E 06	2.190E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	378.2	1298	39.48	40.00	30.00	-9.48	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0397	1.765	3801	3.516E-05	7.627E-08	1.752E 06	2.158E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.329	1.806	20.315	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.00	.329	822.88	7.117E-03	.3299	9.792E-03	.4538	1.206E-02	.5588	8.681E-03	.4023
17.39	.336	821.83	7.077E-03	.3280	9.728E-03	.4508	1.197E-02	.5547	8.627E-03	.3998
17.77	.344	822.93	7.120E-03	.3300	9.795E-03	.4540	1.206E-02	.5590.	8.684E-03	.4025
18.16	.351	823.72	7.150E-03	.3314	9.844E-03	.4562	1.213E-02	.5621	8.725E-03	.4044
18.54	.358	822.92	7.119E-03	.3299	9.795E-03	.4539	1.206E-02	.5590	8.684E-03	.4024
18.92	.366	820.95	7.043E-03	.3264	9.675E-03	.4484	1.190E-02	.5514	8.583E-03	.3978
19.29	.373	821.73	7.073E-03	.3278	9.722E-03	.4506	1.196E-02	.5544	8.623E-03	.3996
19.66	.380	822.24	7.093E-03	.3287	9.754E-03	.4520	1.200E-02	.5564	8.649E-03	.4008
20.03	.387	820.17	7.013E-03	.3250	9.628E-03	.4462	1.183E-02	.5485	8.544E-03	.3960
20.40	.394	821.41	7.061E-03	.3273	9.703E-03	.4497	1.194E-02	.5532	8.607E-03	.3989
20.76	.401	824.36	7.176E-03	.3326	9.884E-03	.4581	1.218E-02	.5646	8.758E-03	.4059
21.12	.408	825.85	7.234E-03	.3353	9.976E-03	.4623	1.231E-02	.5704	8.836E-03	.4095
21.48	.415	826.41	7.256E-03	.3363	1.001E-02	.4640	1.236E-02	.5726	8.865E-03	.4108
21.84	.422	825.39	7.217E-03	.3345	9.948E-03	.4610	1.227E-02	.5687	8.812E-03	.4084
22.19	.429	824.50	7.182E-03	.3328	9.893E-03	.4585	1.219E-02	.5652	8.766E-03	.4063
22.54	.436	824.59	7.185E-03	.3330	9.899E-03	.4588	1.220E-02	.5655	8.771E-03	.4065
22.88	.442	827.22	7.288E-03	.3378	1.006E-02	.4663	1.243E-02	.5759	8.908E-03	.4128
23.23	.449	825.40	7.217E-03	.3345	9.949E-03	.4611	1.227E-02	.5687	8.813E-03	.4085
23.57	.456	824.27	7.173E-03	.3324	9.879E-03	.4579	1.218E-02	.5643	8.755E-03	.4057
23.91	.462	824.96	7.200E-03	.3337	9.922E-03	.4599	1.223E-02	.5670	8.791E-03	.4074
24.24	.469	824.54	7.184E-03	.3329	9.897E-03	.4587	1.220E-02	.5654	8.769E-03	.4064
24.57	.475	821.57	7.069E-03	.3276	9.715E-03	.4503	1.195E-02	.5539	8.617E-03	.3994

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
63	8	TILE INSERT	0.175	.020	.015	1.319E 06	2.190E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	378.2	1298	39.48	40.00	30.00	-9.48	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0397	1.765	3801	3.516E-05	7.627E-08	1.752E 06	2.158E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.329	1.806	20.315	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.481	822.39	7.101E-03	.3291	9.765E-03	.4526	1.202E-02	.5571	8.659E-03	.4013
25.23	.488	824.06	7.166E-03	.3321	9.867E-03	.4573	1.216E-02	.5636	8.745E-03	.4053
25.55	.494	821.35	7.061E-03	.3272	9.702E-03	.4496	1.193E-02	.5531	8.606E-03	.3988
25.87	.500	817.17	6.900E-03	.3198	9.450E-03	.4380	1.159E-02	.5373	8.394E-03	.3890

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OHIO
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
43.	8	TILE INSERT	0.175	.020	.015	1.319E 06	2.190E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	378.2	1298	39.48	40.00	30.00	-9.48	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0397	1.765	3801	3.516E-05	7.627E-08	1.752E 06	2.158E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.329	1.806	20.315	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.792	536.93	536.37	534.89	534.92	534.92	534.45	534.15	534.15	518.09	519.13
1.789	540.76	541.06	537.85	537.40	536.58	535.48	534.95	534.68	518.95	520.35
2.785	543.35	543.85	540.03	539.20	537.82	536.28	535.57	535.16	520.17	521.66
3.782	545.46	545.96	541.88	540.76	538.91	537.02	536.10	535.63	521.43	523.19
4.778	547.31	547.81	543.50	542.15	539.91	537.67	536.63	536.07	522.65	524.72
5.775	549.01	549.47	544.94	543.44	540.82	538.32	537.11	536.46	524.09	526.29
6.771	550.56	550.99	546.31	544.67	541.73	538.91	537.55	536.84	525.71	528.00
7.768	552.02	552.45	547.60	545.82	542.59	539.47	537.99	537.26	527.10	529.66
8.765	553.38	553.76	548.83	546.90	543.44	540.06	538.44	537.64	528.45	531.09
9.761	554.67	555.04	550.00	547.98	544.26	540.62	538.85	538.02	529.84	532.48
10.758	555.92	556.24	551.14	549.01	545.08	541.18	539.26	538.38	531.27	534.04
11.754	557.08	557.40	552.22	550.00	545.87	541.70	539.67	538.73	532.84	535.52
12.751	558.24	558.56	553.30	550.96	546.67	542.26	540.09	539.08	534.22	537.04
13.747	559.31	559.63	554.29	551.93	547.46	542.82	540.50	539.50	535.47	538.33
14.744	560.39	560.68	555.31	552.86	548.22	543.38	540.94	539.88	536.81	539.71
15.741	561.40	561.66	556.27	553.76	548.98	543.94	541.35	540.23	538.15	541.18
16.737	562.41	562.67	557.23	554.61	549.74	544.50	541.76	540.59	539.71	542.87
17.734	563.40	563.63	558.13	555.51	550.47	545.05	542.20	540.97	541.03	544.34
18.730	564.32	564.58	559.02	556.35	551.20	545.61	542.65	541.38	542.47	545.76
19.251	564.84	565.01	559.49	556.79	551.58	545.90	542.88	541.53	543.18	546.65
19.727	565.25	565.48	559.92	557.17	551.93	546.17	543.09	541.76	543.72	547.18

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
63	8	TILE INSERT	0.175	.020	.015	1.319E 06	2.190E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	378.2	1298	39.48	40.00	30.00	-9.48	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0397	1.765	3801	3.516E-05	7.627E-08	1.752E 06	2.158E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.329	1.806	20.315	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
20.723	566.14	566.34	560.76	557.98	552.66	546.72	543.53	542.12	545.05	548.65
21.720	567.00	567.21	561.60	558.79	553.33	547.28	543.97	542.50	546.61	550.29

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V418-E9A

AEDC (APO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
63	8	TILE INSERT	0.175	.020	.015	1.319E 06	2.190E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	378.2	1298	39.46	40.00	30.00	-9.48	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0397	1.765	3801	3.516E-05	7.627E-08	1.752E 06	2.158E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.329	1.806	20.315	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
6.538	1
12.646	2
18.232	3

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
64	8	TILE INSERT	0.175	.020	.015	1.154E 06	1.916E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	324.3	1284	29.72	30.02	30.00	.28	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0343	1.522	3780	3.066E-05	7.560E-08	1.533E 06	2.000E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.218	1.797	17.210	500

X (IN)	X/L	TW* (DEG R)	H(T0)	H(T0)/HREF	H(0.9T0)	H(.9T0)/HREF	H(.85T0)	H(.85T0)/HREF	H(.912T0)	H(.912T0)/HREF
9.95	.192	569.41	5.756E-04	.0288	7.017E-04	.0351	7.880E-04	.0394	6.831E-04	.0342
10.33	.200	613.15	1.400E-03	.0700	1.731E-03	.0866	1.964E-03	.0982	1.682E-03	.0841
10.71	.207	625.70	1.664E-03	.0832	2.067E-03	.1034	2.352E-03	.1176	2.006E-03	.1003
11.10	.214	624.76	1.644E-03	.0822	2.041E-03	.1021	2.322E-03	.1161	1.981E-03	.0991
11.48	.222	628.78	1.730E-03	.0865	2.152E-03	.1076	2.451E-03	.1226	2.089E-03	.1044
11.85	.229	628.49	1.724E-03	.0862	2.144E-03	.1072	2.442E-03	.1221	2.081E-03	.1041
12.23	.236	630.29	1.764E-03	.0882	2.195E-03	.1097	2.500E-03	.1250	2.130E-03	.1065
12.60	.244	628.16	1.717E-03	.0859	2.135E-03	.1068	2.431E-03	.1216	2.072E-03	.1036
12.98	.251	629.18	1.739E-03	.0870	2.164E-03	.1082	2.464E-03	.1232	2.100E-03	.1050
13.35	.258	629.07	1.737E-03	.0869	2.161E-03	.1080	2.461E-03	.1230	2.097E-03	.1049
13.72	.265	629.72	1.751E-03	.0876	2.179E-03	.1089	2.482E-03	.1241	2.114E-03	.1057
14.08	.272	629.32	1.743E-03	.0871	2.168E-03	.1084	2.469E-03	.1235	2.104E-03	.1052
14.45	.279	630.40	1.766E-03	.0883	2.198E-03	.1099	2.504E-03	.1252	2.133E-03	.1067
14.81	.286	631.43	1.789E-03	.0895	2.227E-03	.1114	2.538E-03	.1269	2.161E-03	.1081
15.17	.293	622.84	1.603E-03	.0801	1.989E-03	.0995	2.262E-03	.1131	1.931E-03	.0966
15.53	.300	631.18	1.784E-03	.0892	2.220E-03	.1110	2.530E-03	.1265	2.155E-03	.1077
15.89	.307	633.18	1.828E-03	.0914	2.277E-03	.1139	2.596E-03	.1298	2.209E-03	.1105
16.25	.314	631.43	1.789E-03	.0895	2.227E-03	.1114	2.538E-03	.1269	2.161E-03	.1081
16.60	.321	631.08	1.781E-03	.0891	2.217E-03	.1109	2.527E-03	.1263	2.152E-03	.1076
16.96	.328	632.28	1.808E-03	.0904	2.251E-03	.1126	2.566E-03	.1283	2.185E-03	.1092
17.31	.335	633.39	1.832E-03	.0916	2.283E-03	.1142	2.603E-03	.1302	2.215E-03	.1108

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V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
64	8	TILE INSERT	0.175	.020	.015	1.154E 06	1.916E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	324.3	1284	29.72	30.02	30.00	.28	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0343	1.522	3780	3.066E-05	7.560E-08	1.533E 06	2.000E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.218	1.797	17.210	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	634.43	1.855E-03	.0928	2.313E-03	.1156	2.638E-03	.1319	2.244E-03	.1122
18.01	.348	638.91	1.956E-03	.0978	2.442E-03	.1221	2.789E-03	.1395	2.369E-03	.1185
18.35	.355	642.59	2.040E-03	.1020	2.551E-03	.1276	2.916E-03	.1458	2.474E-03	.1237
18.70	.361	646.86	2.139E-03	.1070	2.679E-03	.1340	3.067E-03	.1533	2.598E-03	.1299
19.04	.368	651.44	2.248E-03	.1124	2.820E-03	.1410	3.232E-03	.1616	2.733E-03	.1367
19.38	.375	657.78	2.401E-03	.1201	3.020E-03	.1510	3.467E-03	.1734	2.926E-03	.1463
19.72	.381	663.09	2.536E-03	.1268	3.197E-03	.1598	3.676E-03	.1838	3.096E-03	.1548
20.06	.388	670.30	2.725E-03	.1363	3.447E-03	.1723	3.972E-03	.1986	3.337E-03	.1668
20.39	.394	666.61	2.628E-03	.1314	3.318E-03	.1659	3.819E-03	.1910	3.213E-03	.1606
20.73	.401	678.77	2.954E-03	.1477	3.749E-03	.1875	4.333E-03	.2166	3.627E-03	.1814
21.06	.407	696.13	3.440E-03	.1720	4.401E-03	.2201	5.116E-03	.2558	4.253E-03	.2127
21.39	.413	706.24	3.735E-03	.1868	4.802E-03	.2401	5.603E-03	.2802	4.637E-03	.2319
21.72	.420	714.87	3.993E-03	.1997	5.157E-03	.2579	6.036E-03	.3018	4.976E-03	.2488
22.05	.426	722.23	4.219E-03	.2110	5.470E-03	.2735	6.421E-03	.3211	5.275E-03	.2638
22.37	.432	729.55	4.417E-03	.2209	5.746E-03	.2873	6.763E-03	.3382	5.538E-03	.2769
22.69	.439	733.80	4.585E-03	.2293	5.981E-03	.2991	7.055E-03	.3528	5.762E-03	.2881
23.02	.445	737.48	4.704E-03	.2352	6.149E-03	.3075	7.264E-03	.3632	5.922E-03	.2961
23.34	.451	739.04	4.755E-03	.2378	6.221E-03	.3111	7.355E-03	.3678	5.991E-03	.2996
23.65	.457	741.71	4.843E-03	.2421	6.345E-03	.3173	7.510E-03	.3755	6.109E-03	.3055
23.97	.463	743.75	4.910E-03	.2455	6.441E-03	.3221	7.631E-03	.3816	6.201E-03	.3101
24.29	.469	744.32	4.929E-03	.2465	6.468E-03	.3234	7.665E-03	.3833	6.226E-03	.3113
24.60	.475	745.13	4.956E-03	.2478	6.507E-03	.3254	7.714E-03	.3857	6.263E-03	.3132

NASA/RI OHAO
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
64	8	TILE INSERT	0.175	.020	.015	1.154E 06	1.916E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	324.3	1284	29.72	30.02	30.00	.28	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0343	1.522	3780	3.066E-05	7.560E-08	1.533E 06	2.000E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.218	1.797	17.210	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	748.70	5.076E-03	.2538	6.679E-03	.3340	7.930E-03	.3965	6.426E-03	.3213
25.22	.487	749.66	5.109E-03	.2555	6.725E-03	.3363	7.989E-03	.3995	6.470E-03	.3235
25.53	.493	746.58	5.072E-03	.2536	6.673E-03	.3337	7.923E-03	.3962	6.420E-03	.3210
25.83	.499	717.19	4.065E-03	.2033	5.256E-03	.2628	6.158E-03	.3079	5.071E-03	.2536
26.14	.505	675.89	2.876E-03	.1438	3.646E-03	.1823	4.210E-03	.2105	3.528E-03	.1764

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
64	B	TILE INSERT	0.175	.020	.015	1.154E 06	1.916E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	324.3	1284	29.72	30.02	30.00	.28	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0343	1.522	3780	3.066E-05	7.560E-08	1.533E 06	2.000E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.218	1.797	17.210	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.788	535.78	534.83	533.41	533.38	533.44	533.11	532.85	532.85	527.64	528.09
1.785	539.41	538.85	535.87	535.33	534.62	533.88	533.41	533.26	527.82	528.18
2.781	541.88	541.41	537.78	536.84	535.57	534.48	533.83	533.59	528.09	528.54
3.778	543.91	543.41	539.41	538.17	536.40	534.98	534.24	533.88	528.54	529.16
4.774	545.67	545.14	540.85	539.35	537.23	535.48	534.60	534.18	528.94	529.52
5.771	547.25	546.67	542.20	540.50	537.99	535.93	534.92	534.51	529.25	529.88
6.767	548.74	548.10	543.44	541.59	538.73	536.43	535.28	534.80	529.57	530.19
7.764	550.09	549.42	544.64	542.62	539.47	536.87	535.60	535.04	529.93	530.51
8.761	551.37	550.67	545.79	543.59	540.20	537.31	535.93	535.28	530.51	531.14
9.757	552.54	551.90	546.81	544.55	540.91	537.76	536.25	535.60	530.87	531.45
10.754	553.71	553.01	547.84	545.49	541.62	538.20	536.58	535.90	531.18	531.81
11.750	554.78	554.06	548.83	546.37	542.29	538.67	536.90	536.16	531.45	532.08
12.747	555.83	555.04	549.77	547.22	542.97	539.08	537.20	536.40	531.99	532.52
13.743	556.85	556.09	550.70	548.10	543.64	539.56	537.52	536.66	532.43	533.06
14.740	557.78	557.02	551.61	548.92	544.32	540.03	537.87	536.99	532.75	533.42
15.737	558.71	557.95	552.45	549.74	544.97	540.47	538.20	537.26	533.06	533.69
16.271	559.20	558.42	552.92	550.15	545.32	540.70	538.38	537.40	533.28	533.95
16.733	559.60	558.82	553.33	550.53	545.61	540.91	538.52	537.55	533.42	534.04
17.730	560.47	559.69	554.11	551.29	546.26	541.38	538.88	537.79	533.87	534.63
18.726	561.31	560.53	554.90	552.02	546.99	541.82	539.20	538.08	534.36	534.89

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
64	8	TILE INSERT	0.175	.020	.015	1.154E 06	1.916E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	324.3	1284	29.72	30.02	30.00	.28	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0343	1.522	3780	3.066E-05	7.560E-08	1.533E 06	2.000E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.218	1.797	17.210	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.689	1
11.759	2
16.409	3

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
66	8	TILE INSERT	0.175	.020	.015	9.487E 05	1.576E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.9	1287	29.73	29.97	30.00	.27	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0285	1.260	3784	2.531E-05	7.599E-08	1.261E 06	1.820E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.796	1.664	26.862	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
10.33	.200	588.57	7.449E-04	.0409	9.131E-04	.0502	1.029E-03	.0565	8.883E-04	.0488
10.71	.207	626.98	1.361E-03	.0748	1.691E-03	.0929	1.924E-03	.1057	1.642E-03	.0902
11.10	.214	633.43	1.474E-03	.0810	1.835E-03	.1008	2.091E-03	.1149	1.781E-03	.0978
11.48	.222	631.47	1.439E-03	.0791	1.791E-03	.0984	2.040E-03	.1121	1.738E-03	.0955
11.85	.229	631.72	1.444E-03	.0793	1.796E-03	.0987	2.046E-03	.1124	1.744E-03	.0958
12.23	.236	631.29	1.436E-03	.0789	1.787E-03	.0982	2.035E-03	.1118	1.734E-03	.0953
12.60	.244	635.48	1.510E-03	.0830	1.882E-03	.1034	2.146E-03	.1179	1.826E-03	.1003
12.98	.251	633.08	1.468E-03	.0806	1.827E-03	.1004	2.082E-03	.1144	1.774E-03	.0974
13.35	.258	633.71	1.479E-03	.0812	1.841E-03	.1012	2.099E-03	.1153	1.787E-03	.0982
13.72	.265	633.01	1.467E-03	.0806	1.826E-03	.1003	2.080E-03	.1143	1.772E-03	.0974
14.08	.272	634.12	1.486E-03	.0816	1.851E-03	.1017	2.110E-03	.1159	1.796E-03	.0987
14.45	.279	633.98	1.484E-03	.0815	1.848E-03	.1015	2.106E-03	.1157	1.793E-03	.0985
14.81	.286	634.33	1.490E-03	.0818	1.856E-03	.1019	2.115E-03	.1162	1.801E-03	.0989
15.17	.293	634.57	1.494E-03	.0821	1.861E-03	.1022	2.122E-03	.1166	1.806E-03	.0992
15.53	.300	626.61	1.355E-03	.0744	1.683E-03	.0924	1.914E-03	.1052	1.634E-03	.0898
15.89	.307	636.36	1.526E-03	.0838	1.902E-03	.1045	2.170E-03	.1192	1.846E-03	.1014
16.25	.314	636.90	1.536E-03	.0844	1.915E-03	.1052	2.184E-03	.1200	1.858E-03	.1021
16.60	.321	635.82	1.517E-03	.0833	1.890E-03	.1038	2.155E-03	.1184	1.834E-03	.1008
16.96	.328	633.67	1.478E-03	.0812	1.841E-03	.1011	2.098E-03	.1153	1.787E-03	.0982
17.31	.335	632.77	1.462E-03	.0803	1.820E-03	.1000	2.074E-03	.1140	1.767E-03	.0971
17.66	.341	635.35	1.508E-03	.0829	1.879E-03	.1032	2.143E-03	.1177	1.824E-03	.1002

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REA	REK
66	8	TILE INSERT	0.175	.020	.015	9.487E 05	1.576E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.9	1287	29.73	29.97	30.00	.27	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0285	1.260	3784	2.531E-05	7.599E-08	1.261E 06	1.820E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.796	1.664	26.862	500

X (IN)	X/L	TW* (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
18.01	.348	635.42	1.509E-03	.0829	1.881E-03	.1033	2.145E-03	.1178	1.825E-03	.1003
18.35	.355	636.56	1.530E-03	.0840	1.907E-03	.1048	2.175E-03	.1195	1.851E-03	.1017
18.70	.361	638.06	1.557E-03	.0855	1.942E-03	.1067	2.216E-03	.1217	1.884E-03	.1035
19.04	.368	638.91	1.572E-03	.0864	1.961E-03	.1078	2.239E-03	.1230	1.903E-03	.1046
19.38	.375	639.59	1.594E-03	.0870	1.977E-03	.1084	2.257E-03	.1240	1.919E-03	.1054
19.72	.381	641.17	1.613E-03	.0886	2.014E-03	.1107	2.301E-03	.1264	1.954E-03	.1074
20.06	.388	642.09	1.630E-03	.0895	2.036E-03	.1119	2.326E-03	.1278	1.975E-03	.1085
20.39	.394	656.07	1.893E-03	.1040	2.378E-03	.1307	2.727E-03	.1498	2.305E-03	.1266
20.73	.401	632.98	1.466E-03	.0806	1.825E-03	.1003	2.080E-03	.1143	1.772E-03	.0973
21.06	.407	653.41	1.842E-03	.1012	2.311E-03	.1270	2.649E-03	.1455	2.241E-03	.1231
21.39	.413	664.03	2.053E-03	.1128	2.588E-03	.1422	2.975E-03	.1634	2.507E-03	.1377
21.72	.420	672.78	2.238E-03	.1229	2.831E-03	.1555	3.203E-03	.1793	2.741E-03	.1506
22.05	.426	682.69	2.452E-03	.1347	3.116E-03	.1712	3.603E-03	.1979	3.015E-03	.1656
22.37	.432	690.51	2.627E-03	.1443	3.349E-03	.1840	3.883E-03	.2133	3.239E-03	.1779
22.69	.439	698.85	2.817E-03	.1547	3.605E-03	.1981	4.192E-03	.2303	3.485E-03	.1914
23.02	.445	720.99	3.344E-03	.1837	4.32[illegible]E-03	.2377	5.074E-03	.2787	4.176E-03	.2294
23.34	.451	710.92	3.100E-03	.1703	3.991E-03	.2193	4.662E-03	.2561	3.854E-03	.2118
23.65	.457	716.56	3.236E-03	.1778	4.178E-03	.2295	4.890E-03	.2686	4.033E-03	.2215
23.97	.463	721.98	3.368E-03	.1850	4.361E-03	.2396	5.115E-03	.2810	4.207E-03	.2311
24.29	.469	726.71	3.486E-03	.1915	4.525E-03	.2486	5.317E-03	.2921	4.364E-03	.2398
24.60	.475	731.66	3.611E-03	.1984	4.700E-03	.2582	5.534E-03	.3040	4.531E-03	.2489
24.91	.482	736.29	3.729E-03	.2049	4.866E-03	.2673	5.741E-03	.3154	4.689E-03	.2576

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
66	8	TILE INSERT	0.175	.020	.015	9.487E 05	1.576E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.9	1287	29.73	29.97	30.00	.27	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0285	1.260	3784	2.531E-05	7.599E-08	1.261E 06	1.820E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.796	1.664	26.862	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
25.22	.487	742.04	3.879E-03	.2131	5.078E-03	.2789	6.005E-03	.3299	4.891E-03	.2687
25.53	.493	749.40	4.075E-03	.2239	5.357E-03	.2943	6.356E-03	.3492	5.156E-03	.2833
25.83	.499	743.07	3.906E-03	.2146	5.116E-03	.2811	6.054E-03	.3326	4.927E-03	.2707
26.14	.505	715.64	3.214E-03	.1766	4.148E-03	.2279	4.853E-03	.2666	4.004E-03	.2200

NASA/RI 0869
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/[illegible]/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
66	8	TILE INSERT	0.175	.020	.015	9.487E 05	1.576E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.9	1287	29.73	29.97	30.00	.27	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0285	1.260	3784	2.531E-05	7.599E-08	1.261E 06	1.820E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.796	1.664	26.862	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.730	535.19	534.42	533.06	533.00	533.06	532.55	532.23	532.17	528.40	528.71
1.726	538.55	538.20	535.31	534.77	534.12	533.26	532.73	532.52	528.71	529.07
2.723	540.85	540.59	537.05	536.16	534.98	533.80	533.14	532.85	529.12	529.39
3.720	542.70	542.41	538.55	537.40	535.78	534.30	533.53	533.14	529.34	529.66
4.716	544.32	544.03	539.91	538.49	536.52	534.74	533.86	533.44	529.43	529.88
5.713	545.79	545.43	541.15	539.53	537.20	535.19	534.15	533.71	529.66	530.19
6.709	547.11	546.75	542.26	540.53	537.90	535.60	534.48	533.94	530.10	530.46
7.706	548.36	547.98	543.35	541.47	538.55	536.01	534.77	534.21	530.46	530.96
8.702	549.50	549.12	544.38	542.38	539.23	536.43	535.07	534.48	530.64	531.14
9.699	550.59	550.18	545.38	543.26	539.88	536.84	535.39	534.71	530.78	531.31
10.696	551.67	551.23	546.28	544.11	540.53	537.26	535.69	534.98	531.09	531.63
11.692	552.66	552.16	547.19	544.91	541.15	537.67	535.96	535.22	531.54	532.08
12.689	553.59	553.12	548.07	545.70	541.76	538.05	536.25	535.48	531.90	532.30
13.685	554.49	554.00	548.92	546.49	542.41	538.49	536.55	535.75	531.94	532.48
14.682	555.42	554.87	549.74	547.25	543.03	538.94	536.87	535.98	532.21	532.79
15.678	556.27	555.74	550.53	547.98	543.62	539.32	537.17	536.22	532.57	533.10
16.675	557.05	556.53	551.31	548.71	544.23	539.73	537.46	536.49	532.97	533.46
17.672	557.86	557.34	552.04	549.42	544.82	540.17	537.79	536.75	533.24	533.73
18.668	558.65	558.10	552.77	550.12	545.38	540.62	538.11	537.05	533.37	533.95
19.665	559.40	558.85	553.50	550.79	545.96	541.03	538.41	537.31	533.64	534.18
20.661	560.16	559.58	554.20	551.46	546.52	541.44	538.73	537.55	533.95	534.58

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
66	8	TILE INSERT	0.175	.020	.015	9.487E 05	1.576E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.9	1287	29.73	29.97	30.00	.27	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0285	1.260	3784	2.531E-05	7.599E-08	1.261E 06	1.820E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.796	1.664	26.862	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.730	535.19	534.42	533.06	533.00	533.06	532.55	532.23	532.17	528.40	528.71
1.726	538.55	538.20	535.31	534.77	534.12	533.26	532.73	532.52	528.71	529.07
2.723	540.85	540.59	537.05	536.16	534.98	533.80	533.14	532.85	529.12	529.39
3.720	542.70	542.41	538.55	537.40	535.78	534.30	533.53	533.14	529.34	529.66
4.716	544.32	544.03	539.91	538.49	536.52	534.74	533.86	533.44	529.43	529.88
5.713	545.79	545.43	541.15	539.53	537.20	535.19	534.15	533.71	529.66	530.19
6.709	547.11	546.75	542.26	540.53	537.90	535.60	534.48	533.94	530.10	530.46
7.706	548.36	547.98	543.35	541.47	538.55	536.01	534.77	534.21	530.46	530.96
8.702	549.50	549.12	544.38	542.38	539.23	536.43	535.07	534.48	530.64	531.14
9.699	550.59	550.18	545.38	543.26	539.88	536.84	535.39	534.71	530.78	531.31
10.696	551.67	551.23	546.28	544.11	540.53	537.26	535.69	534.98	531.09	531.63
11.692	552.66	552.16	547.19	544.91	541.15	537.67	535.96	535.22	531.54	532.08
12.689	553.59	553.12	548.07	545.70	541.76	538.05	536.25	535.48	531.90	532.30
13.685	554.49	554.00	548.92	546.49	542.41	538.49	536.55	535.75	531.94	532.48
14.682	555.42	554.87	549.74	547.25	543.03	538.94	536.87	535.98	532.21	532.79
15.678	556.27	555.74	550.53	547.98	543.62	539.32	537.17	536.22	532.57	533.10
16.675	557.05	556.53	551.31	548.71	544.23	539.73	537.46	536.49	532.97	533.46
17.672	557.86	557.34	552.04	549.42	544.82	540.17	537.79	536.75	533.24	533.73
18.668	558.65	558.10	552.77	550.12	545.38	540.62	538.11	537.05	533.37	533.95
19.665	559.40	558.85	553.50	550.79	545.96	541.03	538.41	537.31	533.64	534.18
20.661	560.16	559.58	554.20	551.46	546.52	541.44	538.73	537.55	533.95	534.58

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
46	8	TILE INSERT	0.175	.020	.015	9.487E 05	1.576E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.9	1287	29.73	29.97	30.00	.27	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0285	1.260	3784	2.531E-05	7.599E-08	1.261E 06	1.820E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.796	1.664	26.862	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.658	560.88	560.30	554.90	552.10	547.11	541.85	539.08	537.82	534.40	534.98
22.654	561.57	561.00	555.57	552.74	547.66	542.29	539.41	538.14	534.54	535.12
23.651	562.27	561.69	556.24	553.39	548.19	542.73	539.73	538.44	534.71	535.30
24.648	562.91	562.33	556.85	553.97	548.74	543.15	540.06	538.67	534.94	535.61
25.644	563.57	562.99	557.49	554.58	549.27	543.56	540.38	538.94	535.38	536.01
26.641	564.23	563.63	558.13	555.16	549.83	544.00	540.73	539.26	535.70	536.28
26.906	564.41	563.77	558.27	555.31	549.97	544.08	540.85	539.32	535.70	536.32
27.637	564.84	564.26	558.73	555.74	550.35	544.38	541.06	539.56	535.88	536.50
28.634	565.48	564.73	559.14	556.32	550.99	544.79	541.50	539.82	536.05	536.59

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
66	8	TILE INSERT	0.175	.020	.015	9.487E 05	1.576E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.9	1287	29.73	29.97	30.00	.27	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0285	1.260	3784	2.531E-05	7.599E-08	1.261E 06	1.820E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.756	1.664	26.862	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
8.830	1
15.518	2
22.568	3
27.272	4

NASA/RI OH69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
67.	B	TILE INSERT	0.175	.020	.015	9.561E 05	1.588E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.4	1279	39.29	39.66	30.00	-9.29	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0284	1.258	3772	2.543E-05	7.550E-08	1.271E 06	1.817E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.768	1.655	16.859	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.933TO)	H(.933TO)/HREF
10.37	.200	557.59	4.151E-04	.0228	5.045E-04	.0278	5.654E-04	.0311	4.707E-04	.0259
10.81	.209	622.21	1.652E-03	.0909	2.051E-03	.1129	2.333E-03	.1285	1.894E-03	.1045
11.24	.217	639.59	2.042E-03	.1124	2.552E-03	.1405	2.917E-03	.1606	2.356E-03	.1297
11.67	.226	637.96	2.004E-03	.1103	2.504E-03	.1378	2.860E-03	.1574	2.312E-03	.1273
12.10	.234	638.91	2.026E-03	.1115	2.532E-03	.1394	2.893E-03	.1593	2.338E-03	.1287
12.52	.242	637.23	1.987E-03	.1094	2.482E-03	.1366	2.835E-03	.1561	2.292E-03	.1262
12.94	.250	638.35	2.013E-03	.1108	2.515E-03	.1385	2.874E-03	.1582	2.323E-03	.1279
13.36	.258	636.63	1.974E-03	.1087	2.464E-03	.1357	2.814E-03	.1549	2.276E-03	.1253
13.78	.266	637.53	1.994E-03	.1098	2.491E-03	.1371	2.845E-03	.1566	2.300E-03	.1266
14.19	.274	637.86	2.002E-03	.1102	2.501E-03	.1377	2.857E-03	.1573	2.309E-03	.1271
14.60	.282	637.83	2.001E-03	.1102	2.500E-03	.1376	2.856E-03	.1572	2.308E-03	.1271
15.01	.290	639.98	2.051E-03	.1129	2.564E-03	.1412	2.931E-03	.1614	2.367E-03	.1303
15.41	.298	634.94	1.935E-03	.1065	2.415E-03	.1329	2.756E-03	.1517	2.231E-03	.1228
15.81	.306	641.85	2.072E-03	.1140	2.591E-03	.1426	2.962E-03	.1631	2.391E-03	.1316
16.21	.313	641.68	2.091E-03	.1151	2.616E-03	.1440	2.991E-03	.1647	2.414E-03	.1329
16.61	.321	643.22	2.127E-03	.1171	2.663E-03	.1466	3.046E-03	.1677	2.457E-03	.1352
17.00	.329	644.92	2.167E-03	.1193	2.715E-03	.1499	3.108E-03	.1711	2.504E-03	.1379
17.39	.336	648.65	2.257E-03	.1242	2.831E-03	.1558	3.244E-03	.1786	2.610E-03	.1437
17.77	.344	657.05	2.463E-03	.1356	3.100E-03	.1706	3.561E-03	.1960	2.854E-03	.1571
18.16	.351	668.89	2.774E-03	.1527	3.509E-03	.1932	4.046E-03	.2227	3.225E-03	.1775
18.54	.358	682.55	3.151E-03	.1735	4.011E-03	.2208	4.645E-03	.2557	3.677E-03	.2024

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
67	8	TILE INSERT	0.175	.020	.015	9.561E 05	1.588E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.4	1279	39.29	39.66	30.00	-9.29	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0284	1.258	3772	2.543E-05	7.550E-08	1.271E 06	1.817E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.783	1.655	16.859	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.933TO)	H(.933TO)/HREF
18.92	.366	710.42	3.971E-03	.2186	5.123E-03	.2820	5.993E-03	.3299	4.672E-03	.2572
19.29	.373	700.93	3.684E-03	.2028	4.731E-03	.2604	5.514E-03	.3036	4.322E-03	.2379
19.66	.380	722.96	4.362E-03	.2401	5.665E-03	.3119	6.660E-03	.3666	5.153E-03	.2836
20.03	.387	715.14	4.117E-03	.2266	5.324E-03	.2931	6.239E-03	.3435	4.850E-03	.2670
20.40	.394	723.11	4.367E-03	.2404	5.672E-03	.3122	6.668E-03	.3671	5.159E-03	.2840
20.76	.401	709.63	3.947E-03	.2173	5.090E-03	.2802	5.952E-03	.3277	4.642E-03	.2556
21.12	.408	732.04	4.655E-03	.2563	6.076E-03	.3345	7.170E-03	.3947	5.515E-03	.3036
21.48	.415	743.47	5.036E-03	.2772	6.616E-03	.3642	7.046E-03	.4319	5.990E-03	.3297
21.84	.422	751.18	5.301E-03	.2918	6.996E-03	.3851	8.327E-03	.4584	6.322E-03	.3480
22.19	.429	751.02	5.295E-03	.2915	6.988E-03	.3847	8.317E-03	.4578	6.316E-03	.3477
22.54	.436	753.99	5.399E-03	.2972	7.138E-03	.3929	8.508E-03	.4683	6.447E-03	.3549
22.88	.442	751.93	5.328E-03	.2933	7.034E-03	.3872	8.376E-03	.4611	6.356E-03	.3499
23.23	.449	752.25	5.339E-03	.2939	7.050E-03	.3881	8.396E-03	.4622	6.370E-03	.3507
23.57	.456	751.75	5.286E-03	.2910	6.975E-03	.3840	8.300E-03	.4569	6.304E-03	.3470
23.91	.462	753.44	5.276E-03	.2904	6.959E-03	.3831	8.281E-03	.4559	6.291E-03	.3463
24.24	.469	749.98	5.250E-03	.2890	6.931E-03	.3819	8.252E-03	.4543	6.271E-03	.3452
24.57	.475	750.40	5.275E-03	.2904	6.958E-03	.3830	8.279E-03	.4558	6.289E-03	.3462
24.90	.481	754.37	5.414E-03	.2980	7.158E-03	.3941	8.534E-03	.4698	6.464E-03	.3559
25.23	.488	756.69	5.496E-03	.3025	7.277E-03	.4006	8.685E-03	.4781	6.568E-03	.3616
25.55	.494	755.86	5.466E-03	.3009	7.235E-03	.3983	8.631E-03	.4751	6.531E-03	.3595
25.87	.500	748.18	5.198E-03	.2862	6.848E-03	.3770	8.139E-03	.4481	6.193E-03	.3409

NASA/FI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
67	8	TILE INSERT	0.175	.020	.015	9.561E 05	1.588E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.4	1279	39.29	39.66	30.00	-9.29	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0284	1.258	3772	2.543E-05	7.550E-08	1.271E 06	1.817E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.788	1.655	16.859	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.726	541.24	540.74	539.56	539.59	539.65	539.18	538.82	538.76	517.32	517.68
1.722	544.44	544.62	542.00	541.62	540.97	540.06	539.50	539.24	518.00	518.18
2.719	546.58	546.88	543.80	543.12	542.00	540.74	540.03	539.65	518.77	519.13
3.716	548.31	548.66	545.29	544.38	542.89	541.33	540.50	540.06	519.67	519.94
4.712	549.80	550.18	546.61	545.53	543.68	541.92	540.89	540.39	520.44	520.89
5.709	551.20	551.52	547.81	546.58	544.47	542.39	541.27	540.74	521.43	521.84
6.705	552.49	552.75	548.90	547.58	545.18	542.89	541.65	541.03	522.51	523.01
7.702	553.68	553.94	549.98	548.49	545.91	543.33	542.03	541.36	523.46	523.95
8.698	554.79	555.02	551.00	549.39	546.58	543.80	542.39	541.68	524.31	524.81
9.695	555.86	556.10	551.93	550.30	547.26	544.30	542.74	542.00	525.26	525.71
10.692	556.85	557.08	552.87	551.12	547.93	544.71	543.06	542.30	526.25	526.74
11.688	557.87	558.01	553.74	551.93	548.57	545.18	543.39	542.56	527.28	527.82
12.685	558.80	558.94	554.61	552.75	549.22	545.62	543.74	542.89	528.27	528.85
13.681	559.70	559.87	555.46	553.51	549.89	546.08	544.09	543.21	529.21	529.66
14.678	560.54	560.68	556.27	554.26	550.47	546.52	544.44	543.47	530.06	530.64
15.674	561.38	561.52	557.06	555.02	551.12	546.96	544.79	543.77	531.09	531.76
16.040	561.70	561.81	557.35	555.25	551.35	547.11	544.88	543.86	531.40	532.17
16.671	562.22	562.33	557.84	555.72	551.73	547.40	545.12	544.06	532.17	532.84
17.668	563.00	563.11	558.59	556.45	552.34	547.87	545.47	544.38	533.02	533.78

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
67	8	TILE INSERT	0.175	.020	.015	9.561E 05	1.588E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.4	1279	39.29	39.66	30.00	-9.29	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0294	1.259	3772	2.543E-05	7.550E-08	1.271E 06	1.817E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.768	1.655	16.859	500

PHOTOGRAPH.TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
6.015	1
11.341	2
16.196	3

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
68	8	TILE INSERT	0.175	.020	.015	7.609E 05	1.264E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.6	1272	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0225	.995	3762	2.023E-05	7.527E-08	1.011E 06	1.614E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.320	1.650	31.394	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	577.85	5.683E-04	.0352	6.958E-04	.0431	7.837E-04	.0485	6.769E-04	.0419
10.33	.200	606.88	9.841E-04	.0610	1.217E-03	.0754	1.380E-03	.0855	1.182E-03	.0732
10.71	.207	611.43	1.054E-03	.0653	1.305E-03	.0808	1.481E-03	.0918	1.267E-03	.0785
11.10	.214	609.96	1.031E-03	.0639	1.276E-03	.0791	1.448E-03	.0897	1.240E-03	.0768
11.48	.222	610.23	1.035E-03	.0641	1.281E-03	.0794	1.454E-03	.0901	1.245E-03	.0771
11.85	.229	612.96	1.077E-03	.0667	1.335E-03	.0827	1.516E-03	.0939	1.297E-03	.0803
12.23	.236	612.92	1.077E-03	.0667	1.334E-03	.0827	1.515E-03	.0939	1.296E-03	.0803
12.60	.244	612.79	1.075E-03	.0666	1.332E-03	.0825	1.512E-03	.0937	1.293E-03	.0801
12.98	.251	614.47	1.101E-03	.0682	1.365E-03	.0846	1.551E-03	.0961	1.326E-03	.0821
13.35	.258	615.46	1.132E-03	.0701	1.405E-03	.0870	1.597E-03	.0989	1.364E-03	.0845
13.72	.265	616.46	1.132E-03	.0701	1.405E-03	.0870	1.597E-03	.0989	1.364E-03	.0845
14.08	.272	613.87	1.092E-03	.0676	1.353E-03	.0838	1.537E-03	.0952	1.314E-03	.0814
14.45	.279	618.73	1.168E-03	.0724	1.450E-03	.0898	1.650E-03	.1022	1.408E-03	.0872
14.81	.286	617.66	1.151E-03	.0713	1.429E-03	.0885	1.625E-03	.1007	1.387E-03	.0859
15.17	.293	619.30	1.177E-03	.0729	1.462E-03	.0906	1.663E-03	.1030	1.419E-03	.0879
15.53	.300	622.59	1.230E-03	.0762	1.529E-03	.0947	1.741E-03	.1079	1.484E-03	.0920
15.89	.307	618.23	1.160E-03	.0718	1.440E-03	.0892	1.637E-03	.1014	1.396E-03	.0866
16.25	.314	619.94	1.187E-03	.0736	1.475E-03	.0914	1.678E-03	.1040	1.432E-03	.0887
16.60	.321	622.96	1.235E-03	.0765	1.536E-03	.0951	1.749E-03	.1083	1.491E-03	.0923
16.96	.328	627.63	1.312E-03	.0813	1.634E-03	.1012	1.864E-03	.1154	1.586E-03	.0982
17.31	.335	629.89	1.349E-03	.0836	1.682E-03	.1042	1.919E-03	.1189	1.632E-03	.1011

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/03/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
68	8	TILE INSERT	0.175	.020	.015	7.609E 05	1.264E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.6	1272	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0225	.995	3762	2.023E-05	7.527E-08	1.011E 06	1.614E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.320	1.650	31.394	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	631.07	1.369E-03	.0848	1.708E-03	.1058	1.949E-03	.1207	1.657E-03	.1026
18.01	.348	631.67	1.379E-03	.0854	1.720E-03	.1066	1.964E-03	.1216	1.669E-03	.1034
18.35	.355	634.89	1.433E-03	.0888	1.790E-03	.1109	2.045E-03	.1267	1.736E-03	.1076
18.70	.361	634.45	1.425E-03	.0883	1.781E-03	.1103	2.034E-03	.1260	1.727E-03	.1070
19.04	.368	639.16	1.506E-03	.0933	1.884E-03	.1167	2.155E-03	.1335	1.827E-03	.1132
19.38	.375	640.07	1.521E-03	.0942	1.905E-03	.1180	2.179E-03	.1350	1.847E-03	.1144
19.72	.381	641.86	1.552E-03	.0962	1.945E-03	.1205	2.226E-03	.1379	1.886E-03	.1168
20.06	.388	642.55	1.564E-03	.0969	1.960E-03	.1214	2.245E-03	.1390	1.901E-03	.1177
20.39	.394	643.58	1.582E-03	.0980	1.984E-03	.1229	2.272E-03	.1407	1.923E-03	.1191
20.73	.401	645.70	1.620E-03	.1003	2.032E-03	.1259	2.329E-03	.1443	1.970E-03	.1220
21.06	.407	647.21	1.646E-03	.1020	2.067E-03	.1281	2.370E-03	.1468	2.004E-03	.1241
21.39	.413	650.46	1.704E-03	.1056	2.143E-03	.1327	2.459E-03	.1523	2.076E-03	.1286
21.72	.420	652.95	1.749E-03	.1084	2.202E-03	.1364	2.529E-03	.1566	2.133E-03	.1321
22.05	.426	651.26	1.719E-03	.1065	2.162E-03	.1339	2.482E-03	.1537	2.095E-03	.1298
22.37	.432	653.40	1.758E-03	.1089	2.213E-03	.1371	2.541E-03	.1574	2.144E-03	.1328
22.69	.439	655.66	1.818E-03	.1126	2.291E-03	.1419	2.634E-03	.1632	2.219E-03	.1375
23.02	.445	656.85	1.821E-03	.1128	2.296E-03	.1422	2.640E-03	.1635	2.224E-03	.1378
23.34	.451	657.98	1.842E-03	.1141	2.323E-03	.1439	2.672E-03	.1655	2.250E-03	.1394
23.65	.457	659.94	1.879E-03	.1164	2.371E-03	.1469	2.729E-03	.1691	2.297E-03	.1423
23.97	.463	661.64	1.912E-03	.1184	2.415E-03	.1496	2.781E-03	.1723	2.339E-03	.1449
24.29	.469	661.14	1.902E-03	.1178	2.403E-03	.1488	2.766E-03	.1713	2.327E-03	.1441
24.60	.475	662.51	1.929E-03	.1195	2.436E-03	.1510	2.808E-03	.1740	2.361E-03	.1462

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
68	8	TILE INSERT	0.175	.020	.015	7.609E 05	1.264E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.6	1272	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0225	.995	3762	2.023E-05	7.527E-08	1.011E 06	1.614E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.320	1.650	31.394	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	665.16	1.982E-03	.1227	2.507E-03	.1553	2.890E-03	.1790	2.427E-03	.1503
25.22	.487	666.06	1.999E-03	.1239	2.531E-03	.1568	2.918E-03	.1808	2.450E-03	.1517
25.53	.493	667.17	2.022E-03	.1252	2.560E-03	.1586	2.953E-03	.1829	2.478E-03	.1535
25.83	.499	668.22	2.043E-03	.1265	2.588E-03	.1603	2.986E-03	.1850	2.505E-03	.1552
26.14	.505	612.96	1.078E-03	.0668	1.336E-03	.0827	1.517E-03	.0940	1.297E-03	.0804

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	RCX	REK
68	8	TILE INSERT	0.175	.020	.015	7.609E 05	1.264E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.6	1272	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0225	.995	3762	2.023E-05	7.527E-08	1.011E 06	1.614E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.320	1.650	31.394	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.724	535.81	535.10	533.88	533.88	533.77	533.47	533.11	533.06	526.29	526.60
1.720	538.76	539.46	535.87	535.45	534.86	534.09	533.59	533.38	526.60	526.78
2.717	540.73	540.53	537.40	536.66	535.60	534.57	533.94	533.68	526.69	526.87
3.714	542.35	542.15	538.73	537.73	536.28	535.01	534.24	533.94	526.60	526.96
4.710	543.79	543.59	539.88	538.70	536.96	535.39	534.54	534.18	526.69	526.96
5.707	545.05	544.76	540.97	539.59	537.55	535.75	534.83	534.39	526.96	527.28
6.703	546.23	545.93	541.94	540.47	538.17	536.10	535.10	534.62	527.19	527.46
7.700	547.31	546.99	542.88	541.29	538.73	536.49	535.36	534.86	527.23	527.50
8.696	548.33	547.98	543.79	542.09	539.32	536.84	535.60	535.10	527.19	527.50
9.693	549.30	548.95	544.67	542.85	539.88	537.23	535.87	535.31	527.37	527.68
10.690	550.21	549.83	545.46	543.59	540.44	537.55	536.13	535.51	527.68	527.86
11.686	551.08	550.64	546.26	544.29	541.00	537.90	536.37	535.72	527.77	528.13
12.683	551.90	551.49	547.02	544.97	541.53	538.26	536.63	535.96	527.73	528.00
13.679	552.71	552.31	547.75	545.67	542.09	538.64	536.90	536.19	527.86	528.13
14.676	553.47	553.06	548.45	546.31	542.62	539.00	537.14	536.40	528.04	528.27
15.672	554.20	553.76	549.15	546.96	543.15	539.35	537.40	536.61	528.31	528.54
16.669	554.93	554.49	549.83	547.60	543.64	539.73	537.67	536.84	528.27	528.67
17.666	555.63	555.19	550.50	548.22	544.20	540.12	537.96	537.11	528.31	528.58
18.662	556.30	555.83	551.14	548.83	544.67	540.47	538.23	537.31	528.45	528.76
19.659	556.96	556.50	551.75	549.39	545.17	540.82	538.49	537.49	528.71	528.98
20.655	557.60	557.14	552.37	550.00	545.67	541.20	538.79	537.76	528.80	529.03

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
68	8	TILE INSERT	0.175	.020	.015	7.609E 05	1.264E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.6	1272	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0225	.995	3762	2.023E-05	7.527E-08	1.011E 06	1.614E-02	71

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.320	1.650	31.394	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.652	558.24	557.75	552.95	550.56	546.17	541.56	539.05	538.02	528.89	529.16
22.648	558.85	558.36	553.56	551.11	546.67	541.97	539.35	538.26	528.85	529.21
23.645	559.46	558.94	554.14	551.67	547.16	542.32	539.64	538.46	529.07	529.34
24.642	560.04	559.52	554.70	552.19	547.60	542.68	539.91	538.73	529.30	529.57
25.638	560.59	560.10	555.22	552.71	548.07	543.03	540.20	538.97	529.39	529.61
26.635	561.17	560.65	555.80	553.24	548.54	543.41	540.53	539.26	529.39	529.70
27.631	561.75	561.20	556.32	553.76	549.01	543.79	540.82	539.50	529.48	529.79
28.628	562.27	561.75	556.85	554.26	549.47	544.14	541.09	539.73	529.79	529.97
29.624	562.82	562.27	557.34	554.75	549.91	544.53	541.41	539.97	529.79	530.10
30.621	563.34	562.79	557.86	555.25	550.35	544.91	541.70	540.26	529.84	530.19
31.375	563.71	563.19	558.24	555.60	550.70	545.14	541.94	540.44	530.06	530.42
31.618	563.83	563.31	558.39	555.74	550.79	545.26	542.00	540.53	529.97	530.28
32.614	564.38	563.80	558.85	556.21	551.23	545.61	542.29	540.76	530.15	530.42
33.611	564.84	564.26	559.29	556.67	552.10	545.93	542.56	541.0[illegible]	530.33	530.64

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
68	8	TILE INSERT	0.175	.020	.015	7.609E 05	1.264E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	209.6	1272	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0225	.995	3762	2.023E-05	7.527E-08	1.011E 06	1.614E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.320	1.650	31.394	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.831	1
13.045	2
19.928	3
31.778	4

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
49	8	TILE INSERT	0.175	.020	.015	7.633E 05	1.268E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.3	1277	39.71	40.00	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0227	1.003	3768	2.033E-05	7.552E-08	1.014E 06	1.622E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.038	1.646	8.114	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	552.65	4.610E-04	.0284	5.596E-04	.0345	6.267E-04	.0386	5.216E-04	.0322
8.15	.158	570.42	8.940E-04	.0551	1.091E-03	.0673	1.227E-03	.0756	1.015E-03	.0626
8.60	.166	579.75	1.136E-03	.0701	1.391E-03	.0858	1.567E-03	.0966	1.292E-03	.0797
9.05	.175	588.71	1.378E-03	.0850	1.692E-03	.1043	1.910E-03	.1177	1.570E-03	.0968
9.49	.183	678.23	4.351E-03	.2683	5.531E-03	.3411	6.399E-03	.3946	5.064E-03	.3122
9.93	.192	714.50	5.892E-03	.3633	7.623E-03	.4700	8.936E-03	.5510	6.930E-03	.4273
10.37	.200	661.65	3.702E-03	.2283	4.672E-03	.2881	5.376E-03	.3315	4.289E-03	.2645
10.81	.209	631.94	2.673E-03	.1648	3.333E-03	.2055	3.802E-03	.2345	3.075E-03	.1896
11.24	.217	632.12	2.679E-03	.1652	3.340E-03	.2060	3.811E-03	.2350	3.081E-03	.1900
11.67	.226	634.23	2.748E-03	.1694	3.430E-03	.2115	3.915E-03	.2414	3.163E-03	.1950
12.10	.234	640.73	2.964E-03	.1828	3.709E-03	.2287	4.241E-03	.2615	3.417E-03	.2107
12.52	.242	649.85	3.279E-03	.2022	4.117E-03	.2539	4.721E-03	.2911	3.787E-03	.2335
12.94	.250	656.16	3.501E-03	.2158	4.408E-03	.2718	5.063E-03	.3122	4.050E-03	.2497
13.36	.258	662.27	3.727E-03	.2298	4.704E-03	.2901	5.414E-03	.3338	4.319E-03	.2663
13.78	.266	664.57	3.815E-03	.2352	4.820E-03	.2972	5.552E-03	.3423	4.424E-03	.2728
14.19	.274	667.06	3.912E-03	.2412	4.948E-03	.3051	5.703E-03	.3517	4.535E-03	.2798
14.60	.282	673.05	4.146E-03	.2557	5.259E-03	.3242	6.073E-03	.3745	4.819E-03	.2971
15.01	.290	672.11	4.110E-03	.2534	5.210E-03	.3212	6.015E-03	.3709	4.775E-03	.2944
15.41	.298	671.00	4.066E-03	.2507	5.152E-03	.3177	5.946E-03	.3666	4.723E-03	.2912
15.81	.306	675.10	4.228E-03	.2607	5.368E-03	.3310	6.203E-03	.3825	4.917E-03	.3032
16.21	.313	677.45	4.323E-03	.2665	5.493E-03	.3387	6.353E-03	.3917	5.029E-03	.3101

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
69	8	TILE INSERT	0.175	.020	.015	7.633E 05	1.268E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.3	1277	39.71	40.00	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0227	1.003	3768	2.033E-05	7.552E-08	1.014E 06	1.622E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.038	1.646	8.114	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.81	.321	677.16	4.311E-03	.2658	5.476E-03	.3377	6.335E-03	.3906	5.016E-03	.3093
17.00	.329	680.16	4.432E-03	.2733	5.639E-03	.3477	6.528E-03	.4025	5.161E-03	.3182
17.39	.336	679.99	4.425E-03	.2729	5.630E-03	.3471	6.517E-03	.4018	5.153E-03	.3177
17.77	.344	679.71	4.414E-03	.2722	5.615E-03	.3462	6.499E-03	.4007	5.139E-03	.3169
18.16	.351	679.75	4.416E-03	.2723	5.618E-03	.3464	6.502E-03	.4009	5.141E-03	.3170
18.54	.358	680.84	4.460E-03	.2750	5.677E-03	.3500	6.573E-03	.4053	5.194E-03	.3203
18.92	.366	679.92	4.422E-03	.2727	5.626E-03	.3469	6.513E-03	.4016	5.149E-03	.3175
19.29	.373	679.55	4.409E-03	.2718	5.608E-03	.3458	6.490E-03	.4002	5.132E-03	.3165
19.66	.380	679.71	4.415E-03	.2722	5.616E-03	.3463	6.500E-03	.4008	5.140E-03	.3169
20.03	.387	679.07	4.389E-03	.2706	5.582E-03	.3442	6.459E-03	.3983	5.109E-03	.3150
20.40	.394	680.77	4.458E-03	.2749	5.674E-03	.3499	6.570E-03	.4051	5.192E-03	.3201
20.76	.401	681.68	4.495E-03	.2772	5.724E-03	.3529	6.629E-03	.4088	5.237E-03	.3229
21.12	.408	682.56	4.531E-03	.2794	5.772E-03	.3559	6.687E-03	.4123	5.280E-03	.3255
21.48	.415	683.66	4.577E-03	.2822	5.832E-03	.3596	6.760E-03	.4168	5.334E-03	.3289
21.84	.422	682.39	4.525E-03	.2790	5.763E-03	.3553	6.676E-03	.4117	5.272E-03	.3251
22.19	.429	680.84	4.462E-03	.2751	5.679E-03	.3502	6.575E-03	.4054	5.196E-03	.3204
22.54	.436	679.62	4.413E-03	.2721	5.613E-03	.3461	6.497E-03	.4006	5.137E-03	.3168
22.88	.442	682.58	4.533E-03	.2795	5.774E-03	.3560	6.690E-03	.4125	5.282E-03	.3257
23.23	.449	681.83	4.503E-03	.2776	5.733E-03	.3535	6.641E-03	.4095	5.245E-03	.3234
23.57	.456	683.81	4.584E-03	.2826	5.842E-03	.3602	6.771E-03	.4175	5.343E-03	.3294
23.91	.462	683.55	4.574E-03	.2820	5.828E-03	.3594	6.755E-03	.4165	5.330E-03	.3287
24.24	.469	683.32	4.564E-03	.2814	5.816E-03	.3586	6.740E-03	.4156	5.319E-03	.3280

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
69	8	TILE INSERT	0.175	.020	.015	7.633E 05	1.268E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.3	1277	39.71	40.00	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0227	1.003	3768	2.033E-05	7.552E-08	1.014E 06	1.622E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.038	1.646	8.114	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	682.66	4.537E-03	.2798	5.780E-03	.3564	6.697E-03	.4129	5.287E-03	.3260
24.90	.481	683.00	4.552E-03	.2806	5.799E-03	.3575	6.719E-03	.4143	5.304E-03	.3270
25.23	.488	684.29	4.687E-03	.2890	5.980E-03	.3687	6.937E-03	.4277	5.466E-03	.3371
25.55	.494	684.02	4.593E-03	.2832	5.855E-03	.3610	6.786E-03	.4184	5.354E-03	.3301
25.87	.500	682.53	4.533E-03	.2795	5.774E-03	.3560	6.689E-03	.4124	5.282E-03	.3257

NASA/RI 0H60
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
69	8	TILE INSERT	0.175	.020	.015	7.633E 05	1.268E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.3	1277	39.71	40.00	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0227	1.003	3768	2.033E-05	7.552E-08	1.014E 06	1.622E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
9.038	1.646	8.114	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.722	531.19	530.71	529.64	529.70	529.73	529.35	529.08	529.08	521.57	523.28
1.718	534.09	534.27	531.90	531.60	531.04	530.21	529.70	529.53	521.93	523.95
2.715	536.04	536.34	533.53	532.97	531.96	530.83	530.18	529.91	522.83	524.99
3.712	537.61	537.93	534.86	534.12	532.11	531.37	530.59	530.21	523.55	525.84
4.708	538.97	539.32	536.07	535.13	533.47	531.84	531.01	530.56	524.31	526.69
5.705	540.23	540.53	537.20	536.10	534.21	532.34	531.37	530.92	524.94	527.41
6.701	541.41	541.69	538.17	537.02	534.86	532.79	531.69	531.22	525.80	528.27
7.698	542.47	542.73	539.14	537.85	535.51	533.17	532.02	531.48	526.78	529.25
8.091	542.88	543.15	539.50	538.20	535.75	533.38	532.17	531.60	527.01	529.48
8.694	543.50	543.73	540.06	538.67	536.13	533.62	532.37	531.78	527.55	530.06
9.691	544.47	544.70	540.94	539.53	537.17	534.03	532.70	532.05	528.27	530.78

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
69	8	TILE INSERT	0.175	.020	.015	7.633E 05	1.268E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.3	1277	39.71	40.00	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.8	.0227	1.003	3768	2.033E-05	7.552E-08	1.014E 06	1.622E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.038	1.646	8.114	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
2.665	1
7.638	2

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
70	8	TILE INSERT	0.175	.020	.015	5.688E 05	9.448E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.8	1265	39.79	40.00	30.00	-9.79	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.2	.0168	.739	3750	1.512E-05	7.500E-08	7.558E 05	1.390E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
15.036	1.659	14.105	200

X (IN)	X/L	TW. (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
9.15	.158	568.82	5.071E-04	.0365	6.182E-04	.0445	6.942E-04	.0500	5.753E-04	.0414
9.60	.166	569.04	6.633E-04	.0477	8.106E-04	.0583	9.119E-04	.0656	7.536E-04	.0542
9.85	.175	581.80	9.194E-04	.0662	1.128E-03	.0812	1.273E-03	.0916	1.047E-03	.0754
9.49	.183	601.35	1.340E-03	.0964	1.655E-03	.1191	1.876E-03	.1350	1.532E-03	.1103
9.53	.192	714.01	4.546E-03	.3272	5.902E-03	.4247	6.935E-03	.4991	5.358E-03	.3856
10.37	.200	679.81	3.416E-03	.2459	4.359E-03	.3137	5.056E-03	.3639	3.985E-03	.2868
10.81	.209	628.75	1.790E-03	.1288	2.226E-03	.1603	2.538E-03	.1826	2.057E-03	.1480
11.24	.217	593.17	1.160E-03	.0835	1.429E-03	.1028	1.616E-03	.1163	1.324E-03	.0953
11.67	.226	609.57	1.526E-03	.1098	1.891E-03	.1361	2.148E-03	.1546	1.749E-03	.1259
12.10	.234	611.27	1.566E-03	.1127	1.942E-03	.1397	2.206E-03	.1588	1.795E-03	.1292
12.52	.242	613.41	1.616E-03	.1163	2.005E-03	.1443	2.280E-03	.1641	1.853E-03	.1334
12.94	.250	614.96	1.652E-03	.1189	2.052E-03	.1476	2.334E-03	.1679	1.896E-03	.1364
13.36	.258	616.31	1.684E-03	.1212	2.092E-03	.1506	2.381E-03	.1713	1.933E-03	.1391
13.78	.266	621.82	1.816E-03	.1307	2.261E-03	.1627	2.577E-03	.1854	2.087E-03	.1502
14.19	.274	622.45	1.832E-03	.1318	2.281E-03	.1641	2.599E-03	.1871	2.105E-03	.1515
14.60	.282	628.27	1.974E-03	.1421	2.464E-03	.1773	2.813E-03	.2024	2.272E-03	.1635
15.01	.290	633.78	2.113E-03	.1520	2.642E-03	.1902	3.021E-03	.2174	2.435E-03	.1752
15.41	.298	635.25	2.150E-03	.1547	2.691E-03	.1936	3.078E-03	.2215	2.479E-03	.1784
15.81	.306	638.65	2.238E-03	.1610	2.804E-03	.2018	3.210E-03	.2310	2.582E-03	.1858
16.21	.313	641.36	2.308E-03	.1661	2.896E-03	.2084	3.318E-03	.2388	2.665E-03	.1918
16.61	.321	647.28	2.465E-03	.1774	3.100E-03	.2231	3.556E-03	.2561	2.850E-03	.2051

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
70	8	TILE INSERT	0.175	.020	.015	5.688E 05	9.448E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.8	1265	39.79	40.00	30.00	-9.79	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.2	.0168	.739	3750	1.512E-05	7.500E-08	7.558E 05	1.390E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
15.036	1.659	14.105	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.00	.329	652.19	2.598E-03	.1870	3.274E-03	.2356	3.763E-03	.2708	3.007E-03	.2164
17.39	.336	656.05	2.760E-03	.1986	3.487E-03	.2510	4.016E-03	.2890	3.200E-03	.2303
17.77	.344	658.02	2.704E-03	.1946	3.413E-03	.2456	3.928E-03	.2826	3.133E-03	.2255
18.16	.351	660.71	2.836E-03	.2041	3.588E-03	.2582	4.135E-03	.2976	3.291E-03	.2368
18.54	.358	663.88	2.931E-03	.2109	3.712E-03	.2671	4.283E-03	.3082	3.403E-03	.2449
18.92	.366	663.78	2.928E-03	.2107	3.708E-03	.2668	4.278E-03	.3079	3.400E-03	.2446
19.29	.373	666.20	3.003E-03	.2161	3.808E-03	.2740	4.397E-03	.3164	3.484E-03	.2511
19.66	.380	667.69	3.045E-03	.2192	3.864E-03	.2781	4.463E-03	.3212	3.540E-03	.2547
20.03	.387	669.56	3.102E-03	.2232	3.939E-03	.2835	4.553E-03	.3277	3.608E-03	.2596
20.40	.394	669.05	3.087E-03	.2221	3.919E-03	.2820	4.529E-03	.3259	3.589E-03	.2583
20.76	.401	671.47	3.160E-03	.2274	4.016E-03	.2890	4.646E-03	.3343	3.677E-03	.2646
21.12	.408	673.16	3.212E-03	.2311	4.085E-03	.2940	4.728E-03	.3403	3.739E-03	.2691
21.48	.415	675.62	3.288E-03	.2366	4.187E-03	.3013	4.850E-03	.3490	3.830E-03	.2756
21.84	.422	677.42	3.344E-03	.2406	4.262E-03	.3067	4.939E-03	.3555	3.898E-03	.2805
22.19	.429	677.33	3.341E-03	.2405	4.258E-03	.3064	4.935E-03	.3551	3.894E-03	.2803
22.54	.436	675.82	3.294E-03	.2371	4.195E-03	.3019	4.860E-03	.3497	3.838E-03	.2762
22.88	.442	678.42	3.375E-03	.2429	4.304E-03	.3097	4.990E-03	.3591	3.935E-03	.2832
23.23	.449	679.65	3.414E-03	.2457	4.356E-03	.3134	5.052E-03	.3636	3.982E-03	.2866
23.57	.456	679.24	3.401E-03	.2448	4.338E-03	.3122	5.031E-03	.3621	3.966E-03	.2854
23.91	.462	678.83	3.387E-03	.2438	4.320E-03	.3109	5.009E-03	.3605	3.950E-03	.2842
24.24	.469	681.54	3.474E-03	.2500	4.430E-03	.3192	5.148E-03	.3705	4.054E-03	.2917
24.57	.475	674.47	3.253E-03	.2341	4.140E-03	.2980	4.794E-03	.3450	3.789E-03	.2727

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
70	8	TILE INSERT	0.175	.020	.015	5.688E 05	9.448E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.8	1265	39.79	40.00	30.00	-9.79	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.2	.0168	.739	3750	1.512E-05	7.500E-08	7.558E 05	1.390E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.036	1.659	14.105	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.481	680.26	3.434E-03	.2471	4.382E-03	.3153	5.084E-03	.3658	4.005E-03	.2882
25.23	.488	683.93	3.550E-03	.2554	4.538E-03	.3265	5.271E-03	.3793	4.145E-03	.2983
25.55	.494	683.25	3.528E-03	.2539	4.509E-03	.3245	5.236E-03	.3768	4.119E-03	.2964
25.87	.500	683.23	3.528E-03	.2539	4.508E-03	.3244	5.235E-03	.3768	4.118E-03	.2964

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
70	8	TILE INSERT	0.175	.020	.015	5.688E 05	9.448E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.8	1265	39.79	40.00	30.00	-9.79	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.2	.0168	.739	3750	1.512E-05	7.500E-08	7.558E 05	1.390E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.036	1.659	14.105	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.728	531.57	531.19	530.24	530.30	530.45	530.00	529.67	529.64	526.83	527.37
1.724	534.06	534.21	532.14	531.90	531.45	530.74	530.24	530.03	527.19	527.77
2.721	535.72	535.96	533.50	533.08	532.26	531.28	530.65	530.33	527.73	528.40
3.718	537.05	537.31	534.65	534.06	532.88	531.72	531.01	530.65	528.22	528.89
4.714	538.23	538.49	535.69	534.92	533.53	532.14	531.31	530.95	528.58	529.34
5.711	539.26	539.53	536.63	535.75	534.12	532.52	531.63	531.22	529.16	529.97
6.707	540.26	540.47	537.46	536.52	534.68	532.91	531.93	531.43	529.61	530.28
7.704	541.20	541.41	538.29	537.23	535.25	533.29	532.20	531.66	530.19	530.96
8.700	542.03	542.23	539.05	537.93	535.78	533.62	532.46	531.93	530.60	531.31
9.697	542.85	543.06	539.82	538.58	536.31	534.00	532.73	532.20	531.05	531.67
10.694	543.67	543.83	540.53	539.20	536.81	534.36	533.00	532.43	531.45	532.25
11.690	544.41	544.55	541.20	539.88	537.31	534.68	533.29	532.61	532.08	532.79
12.687	545.11	545.26	541.85	540.47	537.79	535.04	533.53	532.85	532.57	533.24
13.683	545.82	545.96	542.50	541.09	538.29	535.36	533.80	533.11	532.89	533.64
14.145	546.14	546.26	542.82	541.38	538.52	535.54	533.91	533.23	533.06	533.73
14.680	546.49	546.64	543.15	541.68	538.79	535.72	534.06	533.35	533.33	534.04
15.676	547.16	547.28	543.76	542.26	539.29	536.07	534.33	533.56	533.82	534.58

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
70	8	TILE INSERT	0.175	.020	.015	5.688E 05	9.448E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.8	1265	39.79	40.00	30.00	-9.79	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.2	.0168	.739	3750	1.512E-05	7.500E-08	7.558E 05	1.390E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.036	1.659	14.105	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
1.816	1
5.642	2
11.713	3

AEDC (ARO.INC.) ARNOLD AFS. TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H60
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
71	8	TILE INSERT	0.175	.020	.015	3.966E 05	6.587E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.5	1254	39.87	40.01	30.00	-9.87	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.0	.0117	.512	3734	1.057E-05	7.490E-08	5.270E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
52.035	1.664	51.101	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
8.15	.158	568.71	3.600E-04	.0312	4.406E-04	.0381	4.962E-04	.0430	4.094E-04	.0354
8.60	.166	576.90	4.470E-04	.0387	5.486E-04	.0475	6.189E-04	.0536	5.092E-04	.0441
9.05	.175	584.66	5.323E-04	.0461	6.550E-04	.0567	7.404E-04	.0641	6.074E-04	.0526
9.49	.183	596.45	6.675E-04	.0578	8.248E-04	.0714	9.349E-04	.0809	7.635E-04	.0661
9.93	.192	698.28	2.160E-03	.1870	2.790E-03	.2415	3.265E-03	.2826	2.538E-03	.2197
10.37	.200	696.71	2.132E-03	.1846	2.751E-03	.2382	3.218E-03	.2786	2.504E-03	.2167
10.81	.209	652.95	1.411E-03	.1221	1.783E-03	.1543	2.053E-03	.1777	1.636E-03	.1416
11.24	.217	633.56	1.137E-03	.0984	1.425E-03	.1233	1.631E-03	.1412	1.311E-03	.1135
11.67	.226	635.31	1.174E-03	.1017	1.474E-03	.1276	1.689E-03	.1462	1.356E-03	.1174
12.10	.234	634.07	1.144E-03	.0990	1.434E-03	.1241	1.642E-03	.1421	1.320E-03	.1142
12.52	.242	636.52	1.177E-03	.1019	1.477E-03	.1279	1.693E-03	.1465	1.359E-03	.1177
12.94	.250	634.89	1.155E-03	.1000	1.448E-03	.1254	1.659E-03	.1436	1.333E-03	.1154
13.36	.258	637.61	1.192E-03	.1032	1.497E-03	.1296	1.716E-03	.1485	1.377E-03	.1192
13.78	.266	637.38	1.199E-03	.1029	1.493E-03	.1292	1.711E-03	.1481	1.373E-03	.1189
14.19	.274	636.95	1.183E-03	.1024	1.485E-03	.1285	1.702E-03	.1473	1.366E-03	.1183
14.60	.282	634.89	1.155E-03	.1000	1.448E-03	.1254	1.659E-03	.1436	1.333E-03	.1154
15.01	.290	637.71	1.194E-03	.1033	1.499E-03	.1297	1.718E-03	.1487	1.379E-03	.1193
15.41	.298	636.15	1.172E-03	.1015	1.471E-03	.1273	1.685E-03	.1459	1.353E-03	.1171
15.81	.306	637.12	1.186E-03	.1026	1.488E-03	.1288	1.705E-03	.1476	1.369E-03	.1185
16.21	.313	637.68	1.193E-03	.1033	1.498E-03	.1297	1.717E-03	.1487	1.378E-03	.1193
16.61	.321	637.25	1.187E-03	.1028	1.490E-03	.1290	1.708E-03	.1479	1.371E-03	.1187

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
71	8	TILE INSERT	0.175	.020	.015	3.966E 05	6.587E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.5	1254	39.87	40.01	30.00	-9.87	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.0	.0117	.512	3734	1.057E-05	7.490E-08	5.270E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
52.035	1.664	51.101	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.00	.329	636.82	1.181E-03	.1023	1.483E-03	.1283	1.699E-03	.1471	1.364E-03	.1181
17.39	.336	639.22	1.215E-03	.1051	1.526E-03	.1321	1.750E-03	.1515	1.403E-03	.1215
17.77	.344	639.84	1.223E-03	.1059	1.537E-03	.1331	1.763E-03	.1526	1.414E-03	.1224
18.16	.351	640.58	1.234E-03	.1068	1.551E-03	.1342	1.779E-03	.1540	1.426E-03	.1234
18.54	.358	641.22	1.243E-03	.1076	1.562E-03	.1352	1.793E-03	.1552	1.436E-03	.1243
18.92	.366	642.01	1.254E-03	.1085	1.577E-03	.1365	1.810E-03	.1567	1.450E-03	.1255
19.29	.373	641.63	1.248E-03	.1081	1.570E-03	.1359	1.802E-03	.1560	1.443E-03	.1249
19.66	.380	641.22	1.243E-03	.1076	1.562E-03	.1352	1.793E-03	.1552	1.436E-03	.1243
20.03	.387	641.86	1.252E-03	.1083	1.574E-03	.1362	1.807E-03	.1564	1.447E-03	.1253
20.40	.394	634.83	1.209E-03	.1047	1.519E-03	.1315	1.742E-03	.1508	1.397E-03	.1209
20.76	.401	634.31	1.202E-03	.1041	1.509E-03	.1307	1.731E-03	.1498	1.389E-03	.1202
21.12	.408	635.21	1.201E-03	.1039	1.508E-03	.1305	1.729E-03	.1496	1.387E-03	.1201
21.48	.415	636.72	1.180E-03	.1022	1.481E-03	.1282	1.697E-03	.1469	1.363E-03	.1180
21.84	.422	637.12	1.186E-03	.1026	1.488E-03	.1289	1.706E-03	.1476	1.369E-03	.1185
22.19	.429	637.12	1.186E-03	.1026	1.488E-03	.1288	1.706E-03	.1476	1.369E-03	.1185
22.54	.436	636.28	1.174E-03	.1016	1.473E-03	.1275	1.688E-03	.1461	1.356E-03	.1173
22.88	.442	635.27	1.160E-03	.1004	1.455E-03	.1260	1.667E-03	.1443	1.339E-03	.1159
23.23	.449	631.35	1.107E-03	.0958	1.386E-03	.1200	1.586E-03	.1373	1.277E-03	.1105
23.57	.456	634.64	1.207E-03	.1045	1.515E-03	.1312	1.738E-03	.1504	1.394E-03	.1207
23.91	.462	635.91	1.169E-03	.1012	1.467E-03	.1270	1.680E-03	.1455	1.350E-03	.1168
24.24	.469	637.08	1.185E-03	.1026	1.488E-03	.1288	1.705E-03	.1476	1.369E-03	.1185
24.57	.475	636.78	1.181E-03	.1022	1.482E-03	.1283	1.699E-03	.1470	1.364E-03	.1181

NASA/RI 0H69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
71	8	TILE INSERT	0.175	.020	.015	3.966E 05	6.587E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.5	1254	39.87	40.01	30.00	-9.87	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.0	.0117	.512	3734	1.057E-05	7.490E-08	5.270E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
52.035	1.664	51.101	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.481	637.78	1.195E-03	.1034	1.500E-03	.1299	1.720E-03	.1489	1.380E-03	.1195
25.23	.488	634.19	1.214E-03	.1051	1.526E-03	.1321	1.750E-03	.1515	1.403E-03	.1215
25.55	.494	634.09	1.213E-03	.1050	1.524E-03	.1319	1.748E-03	.1513	1.402E-03	.1213
25.87	.500	634.35	1.217E-03	.1053	1.529E-03	.1323	1.753E-03	.1518	1.406E-03	.1217

NASA/RI OHAO
V41H-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
71	8	TILE INSERT	0.175	.020	.015	3.966E 05	6.587E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.5	1254	39.87	40.01	30.00	-9.87	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.0	.0117	.512	3734	1.057E-05	7.490E-08	5.270E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
52.035	1.664	51.101	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.730	532.17	531.75	530.95	531.07	531.01	530.83	530.51	530.42	526.11	526.47
1.726	534.21	534.27	532.52	532.40	532.05	531.43	530.98	530.77	526.47	526.69
2.723	535.54	535.72	533.68	533.32	532.70	531.87	531.31	531.04	526.51	526.78
3.720	536.66	536.84	534.65	534.15	533.29	532.26	531.60	531.34	526.51	526.96
4.716	537.61	537.82	535.48	534.89	533.80	532.61	531.90	531.54	526.83	527.05
5.713	538.49	538.67	536.22	535.54	534.27	532.91	532.14	531.75	527.05	527.41
6.709	539.32	539.47	536.93	536.16	534.71	533.23	532.37	531.96	527.28	527.59
7.706	540.06	540.20	537.61	536.78	535.19	533.56	532.58	532.20	527.37	527.59
8.702	540.76	540.91	538.26	537.34	535.60	533.86	532.82	532.40	527.41	527.73
9.699	541.44	541.59	538.88	537.90	536.04	534.12	533.06	532.55	527.64	527.91
10.696	542.12	542.20	539.44	538.44	536.46	534.42	533.26	532.73	527.95	528.27
11.692	542.73	542.82	540.00	538.94	536.87	534.68	533.50	532.97	528.09	528.45
12.689	543.32	543.41	540.56	539.44	537.31	534.98	533.71	533.14	528.18	528.45
13.685	543.88	543.97	541.09	539.97	537.70	535.28	533.91	533.35	528.31	528.58
14.682	544.41	544.50	541.59	540.44	538.08	535.54	534.09	533.50	528.49	528.80
15.678	544.99	545.05	542.05	540.91	538.49	535.84	534.33	533.68	528.80	529.07
16.675	545.52	545.58	542.59	541.36	538.88	536.13	534.57	533.91	528.94	529.21
17.672	546.02	546.08	543.09	541.82	539.26	536.40	534.80	534.09	528.94	529.25
18.668	546.52	546.58	543.56	542.26	539.64	536.69	535.01	534.27	529.07	529.39
19.665	546.99	547.02	544.03	542.70	540.03	536.99	535.25	534.48	529.39	529.75
20.661	547.49	547.54	544.47	543.15	540.41	537.26	535.48	534.68	529.84	530.06

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
71	8	TILE INSERT	0.175	.020	.015	3.966E 05	6.587E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.5	1254	39.87	40.01	30.00	-9.87	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.0	.0117	.512	3734	1.057E-05	7.490E-08	5.270E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
52.035	1.664	51.101	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.658	547.92	547.99	544.91	543.56	540.76	537.55	535.69	534.89	529.79	530.02
22.654	548.39	548.42	545.35	543.97	541.15	537.87	535.93	535.10	529.79	530.06
23.651	548.83	548.86	545.79	544.38	541.53	538.14	536.16	535.28	529.88	530.28
24.648	549.27	549.27	546.20	544.79	541.88	538.44	536.40	535.48	530.28	530.51
25.644	549.74	549.74	546.61	545.20	542.23	538.73	536.63	535.69	530.46	530.78
26.641	550.12	550.12	547.02	545.55	542.59	539.00	536.87	535.93	530.46	530.82
27.637	550.53	550.56	547.40	545.96	542.94	539.29	537.11	536.13	530.60	530.78
28.634	550.96	550.94	547.81	546.34	543.29	539.59	537.34	536.34	530.82	531.14
29.630	551.34	551.34	548.19	546.72	543.63	539.88	537.58	536.55	531.18	531.45
30.627	551.75	551.75	548.57	547.08	543.97	540.14	537.82	536.75	531.22	531.49
31.624	552.13	552.10	548.95	547.46	544.32	540.44	538.08	536.99	531.27	531.58
32.620	552.51	552.51	549.33	547.84	544.64	540.73	538.32	537.20	531.40	531.76
33.617	552.89	552.86	549.71	548.16	544.97	541.00	538.55	537.40	531.76	531.99
34.613	553.27	553.27	550.06	548.54	545.32	541.26	538.79	537.64	531.94	532.30
35.610	553.65	553.62	550.44	548.89	545.64	541.59	539.05	537.87	531.99	532.25
36.606	554.00	553.97	550.79	549.24	545.96	541.88	539.29	538.08	532.12	532.48
37.603	554.38	554.35	551.14	549.59	546.29	542.15	539.56	538.32	532.25	532.52
38.600	554.72	554.70	551.46	549.91	546.58	542.41	539.76	538.52	532.57	532.84
39.596	555.07	555.07	551.81	550.26	546.90	542.70	540.03	538.76	532.70	533.02
40.593	555.45	555.42	552.19	550.61	547.25	543.00	540.29	539.00	532.84	533.10
41.589	555.77	555.74	552.54	550.94	547.54	543.29	540.53	539.20	532.84	533.15
42.586	556.12	556.09	552.86	551.26	547.87	543.56	540.76	539.44	533.06	533.37

NASA/RI OHIO
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/03/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
71	8	TILE INSERT	0.175	.020	.015	3.966E 05	6.587E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.5	1254	39.87	40.01	30.00	-9.87	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.0	.0117	.512	3734	1.057E-05	7.490E-08	5.270E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
52.035	1.664	51.101	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
43.582	556.50	556.41	553.18	551.58	548.16	543.82	541.00	539.67	533.42	533.69
44.579	556.82	556.76	553.53	551.93	548.48	544.11	541.26	539.91	533.46	533.82
45.576	557.14	557.11	553.85	552.22	548.80	544.38	541.53	540.14	533.55	533.91
46.572	557.49	557.43	554.17	552.57	549.09	544.67	541.79	540.38	533.69	534.00
47.569	557.81	557.72	554.49	552.86	549.39	544.94	542.03	540.59	534.00	534.31
48.565	558.13	558.10	554.81	553.18	549.68	545.20	542.29	540.82	534.18	534.54
49.562	558.44	558.39	555.13	553.50	550.00	545.49	542.53	541.09	534.36	534.58
50.558	558.76	558.71	555.48	553.82	550.29	545.76	542.79	541.32	534.31	534.71
51.555	559.08	559.02	555.80	554.20	550.12	546.05	543.03	541.53	534.49	534.85

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
71	8	TILE INSERT	0.175	.020	.015	3.966E 05	6.587E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.5	1254	39.87	40.01	30.00	-9.87	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.0	.0117	.512	3734	1.057E-05	7.490E-08	5.270E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
52.035	1.664	51.101	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
8.049	1
14.380	2
20.648	3
27.838	4
36.693	5
45.754	6

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
72	8	TILE INSERT	0.175	.010	.015	2.256E 06	3.747E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.1	1328	29.39	29.99	30.00	.61	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.5	.0696	3.111	3845	6.054E-05	7.766E-08	2.998E 06	2.876E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.377	1.874	11.325	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.108	579.48	8.543E-04	.0297	1.039E-03	.0361	1.164E-03	.0405	1.011E-03	.0352
9.56	.185	572.96	7.212E-04	.0251	8.752E-04	.0304	9.797E-04	.0341	8.526E-04	.0296
9.95	.192	689.66	3.720E-03	.1293	4.696E-03	.1633	5.406E-03	.1880	4.548E-03	.1582
10.33	.200	733.10	5.197E-03	.1807	6.690E-03	.2326	7.812E-03	.2717	6.460E-03	.2246
10.71	.207	744.72	5.624E-03	.1956	7.281E-03	.2532	8.540E-03	.2970	7.024E-03	.2443
11.10	.214	741.36	5.499E-03	.1912	7.107E-03	.2471	8.325E-03	.2895	6.858E-03	.2385
11.48	.222	749.90	5.819E-03	.2023	7.554E-03	.2627	8.878E-03	.3087	7.285E-03	.2533
11.85	.229	749.05	5.787E-03	.2012	7.509E-03	.2611	8.821E-03	.3067	7.241E-03	.2518
12.23	.236	747.81	5.740E-03	.1996	7.444E-03	.2588	8.741E-03	.3039	7.179E-03	.2496
12.60	.244	730.28	5.096E-03	.1772	6.552E-03	.2278	7.643E-03	.2658	6.327E-03	.2200
12.98	.251	733.72	5.220E-03	.1815	6.722E-03	.2337	7.851E-03	.2730	6.490E-03	.2257
13.35	.258	749.48	5.804E-03	.2018	7.533E-03	.2619	8.851E-03	.3078	7.264E-03	.2526
13.72	.265	746.03	5.674E-03	.1973	7.351E-03	.2556	8.626E-03	.2999	7.091E-03	.2466
14.08	.272	741.90	5.520E-03	.1919	7.136E-03	.2482	8.361E-03	.2907	6.886E-03	.2395
14.45	.279	807.76	8.258E-03	.2872	1.109E-02	.3856	1.338E-02	.4653	1.064E-02	.3698
14.81	.286	807.12	8.228E-03	.2861	1.104E-02	.3840	1.332E-02	.4632	1.059E-02	.3684
15.17	.293	806.70	8.209E-03	.2854	1.101E-02	.3830	1.328E-02	.4619	1.057E-02	.3674
15.53	.300	807.83	8.262E-03	.2873	1.109E-02	.3858	1.339E-02	.4656	1.064E-02	.3700
15.89	.307	808.31	8.285E-03	.2881	1.113E-02	.3870	1.343E-02	.4671	1.067E-02	.3712
16.25	.314	806.91	8.219E-03	.2858	1.103E-02	.3835	1.330E-02	.4626	1.058E-02	.3679
16.60	.321	807.13	8.230E-03	.2862	1.105E-02	.3841	1.333E-02	.4634	1.060E-02	.3685

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
72	8	TILE INSERT	0.175	.010	.015	2.256E 06	3.747E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.1	1328	29.39	29.99	30.00	.61	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.5	.0696	3.111	3845	6.054E-05	7.766E-08	2.998E 06	2.876E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
12.377	1.874	11.325	1000

X (IN)	X/L	T# (DEG R)	HI(TO)	HI(TO)/HREF	HI0.9TO)	HI.9TO)/HREF	HI.85TO)	HI.85TO)/HREF	HI .912TO)	HI .912TO)/HREF
16.96	.328	757.06	8.096E-03	.2120	7.944E-03	.2762	9.362E-03	.3256	7.656E-03	.2662
17.31	.335	809.39	8.337E-03	.2899	1.121E-02	.3897	1.354E-02	.4707	1.075E-02	.3737
17.66	.341	811.74	8.447E-03	.2937	1.137E-02	.3954	1.375E-02	.4782	1.090E-02	.3792
18.01	.348	811.74	8.447E-03	.2937	1.137E-02	.3954	1.375E-02	.4782	1.090E-02	.3792
18.35	.355	811.76	8.402E-03	.2922	1.130E-02	.3931	1.366E-02	.4751	1.084E-02	.3769
18.70	.361	818.46	8.308E-03	.2917	1.128E-02	.3923	1.364E-02	.4741	1.082E-02	.3762
19.04	.368	812.09	8.464E-03	.2943	1.140E-02	.3963	1.379E-02	.4794	1.093E-02	.3800
19.38	.375	818.94	8.411E-03	.2925	1.132E-02	.3935	1.366E-02	.4757	1.085E-02	.3773
19.72	.381	806.87	8.314E-03	.2891	1.117E-02	.3885	1.349E-02	.4691	1.071E-02	.3726
20.06	.388	818.41	8.387E-03	.2916	1.128E-02	.3922	1.363E-02	.4740	1.082E-02	.3761
20.39	.394	812.49	8.484E-03	.2950	1.143E-02	.3974	1.383E-02	.4808	1.096E-02	.3810
20.73	.401	813.86	8.549E-03	.2973	1.153E-02	.4008	1.395E-02	.4852	1.105E-02	.3842
21.06	.407	814.62	8.585E-03	.2985	1.158E-02	.4027	1.403E-02	.4877	1.110E-02	.3860
21.39	.413	816.57	8.677E-03	.3017	1.172E-02	.4075	1.421E-02	.4942	1.123E-02	.3906
21.72	.420	813.59	8.537E-03	.2969	1.151E-02	.4001	1.393E-02	.4844	1.103E-02	.3836
22.05	.426	812.25	8.474E-03	.2947	1.141E-02	.3968	1.381E-02	.4801	1.094E-02	.3805
22.37	.432	813.05	8.512E-03	.2960	1.147E-02	.3988	1.388E-02	.4827	1.100E-02	.3823
22.69	.439	816.09	8.656E-03	.3010	1.169E-02	.4064	1.417E-02	.4927	1.120E-02	.3895
23.02	.445	815.86	8.642E-03	.3005	1.167E-02	.4057	1.414E-02	.4917	1.118E-02	.3888
23.34	.451	813.44	8.531E-03	.2966	1.150E-02	.3998	1.392E-02	.4840	1.102E-02	.3833
23.65	.457	814.65	8.588E-03	.2986	1.158E-02	.4028	1.403E-02	.4880	1.110E-02	.3861
23.97	.463	814.43	8.578E-03	.2983	1.157E-02	.4023	1.401E-02	.4873	1.109E-02	.3856

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
72	8	TILE INSERT	0.175	.010	.015	2.256E 06	3.747E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.1	1328	29.39	29.99	30.00	.61	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.5	.0696	3.111	3845	6.054E-05	7.766E-08	2.998E 06	2.876E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.377	1.874	11.325	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.29	.469	813.04	8.513E-03	.2960	1.147E-02	.3989	1.388E-02	.4827	1.100E-02	.3824
24.60	.475	812.02	8.465E-03	.2944	1.140E-02	.3964	1.379E-02	.4794	1.093E-02	.3800
24.91	.482	815.56	8.632E-03	.3002	1.165E-02	.4051	1.412E-02	.4910	1.117E-02	.3883
25.22	.487	814.13	8.565E-03	.2978	1.155E-02	.4016	1.398E-02	.4863	1.107E-02	.3849
25.53	.493	811.92	8.461E-03	.2942	1.139E-02	.3961	1.378E-02	.4791	1.092E-02	.3798
25.83	.499	801.18	7.960E-03	.2768	1.064E-02	.3700	1.280E-02	.4450	1.021E-02	.3552
26.14	.505	647.56	2.470E-03	.0859	3.068E-03	.1067	3.492E-03	.1214	2.979E-03	.1036

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
72	8	TILE INSERT	0.175	.010	.015	2.256E 06	3.747E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.1	1328	29.39	29.99	30.00	.61	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.5	.0696	3.111	3845	6.054E-05	7.706E-08	2.998E 06	2.876E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
12.377	1.874	11.325	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.822	539.78	538.72	536.18	535.97	535.80	535.15	534.79	534.73	528.13	528.80
1.819	545.07	544.60	539.81	538.72	537.51	536.18	535.47	535.21	528.89	529.84
2.815	548.70	548.35	542.64	540.96	538.87	536.98	536.12	535.65	529.75	531.05
3.812	551.74	551.33	545.07	542.93	540.11	537.72	536.68	536.06	530.87	532.34
4.808	554.39	553.96	547.27	544.78	541.31	538.48	537.22	536.54	532.03	533.60
5.805	556.78	556.26	549.29	546.46	542.49	539.19	537.72	536.98	533.06	534.67
6.801	558.96	558.39	551.13	548.09	543.61	539.90	538.22	537.39	534.09	535.74
7.798	560.99	560.39	552.91	549.61	544.72	540.55	538.72	537.81	535.25	536.95
8.795	562.90	562.20	554.57	551.10	545.81	541.22	539.19	538.19	536.41	538.15
9.791	564.66	563.96	556.17	552.53	546.86	541.90	539.69	538.63	537.39	539.27
10.788	566.36	565.64	557.71	553.90	547.91	542.58	540.19	539.04	538.51	540.20
11.428	567.40	566.65	558.64	554.71	548.56	542.99	540.46	539.28	539.31	540.96
11.784	567.97	567.20	559.19	555.24	548.94	543.28	540.66	539.49	539.49	541.32
12.781	569.53	568.72	560.61	556.55	549.96	543.93	541.14	539.84	540.60	542.47
13.777	571.02	570.19	561.97	557.83	550.98	544.60	541.64	540.25	541.61	543.58
14.774	572.43	571.60	563.27	559.04	551.98	545.26	542.11	540.69	542.74	544.61
15.771	573.63	572.97	564.57	560.23	553.00	546.01	542.64	541.11	543.67	545.58

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
72	8	TILE INSERT	0.175	.010	.015	2.256E 06	3.747E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.1	1328	29.39	29.99	30.00	.61	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.5	.0696	3.111	3845	6.054E-05	7.766E-08	2.998E 06	2.876E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
12.377	1.874	11.325	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.037	1
8.173	2
11.332	3

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
73	8	TILE INSERT	0.175	.010	.015	2.084E 06	3.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	615.8	1318	29.38	29.94	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0636	2.842	3831	5.572E-05	7.709E-08	2.769E 06	2.745E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.528	1.966	13.474	1000

X (IN)	X/L	TW (DEG R)	HI(TO)	HI(TO)/HREF	HI(0.9TO)	HI(0.9TO)/HREF	HI(.85TO)	HI(.85TO)/HREF	HI .912TO)	HI .912TO)/HREF
5.60	.108	576.95	7.466E-04	.0272	9.081E-04	.0331	1.018E-03	.0371	8.846E-04	.0322
9.95	.192	680.49	3.198E-03	.1165	4.031E-03	.1468	4.634E-03	.1688	3.906E-03	.1423
10.33	.200	722.21	4.488E-03	.1635	5.762E-03	.2099	6.715E-03	.2446	5.568E-03	.2028
10.71	.207	737.97	5.016E-03	.1827	6.490E-03	.2364	7.608E-03	.2772	6.264E-03	.2282
11.10	.214	747.23	5.338E-03	.1945	6.940E-03	.2528	8.166E-03	.2975	6.694E-03	.2438
11.48	.222	760.80	5.828E-03	.2123	7.633E-03	.2781	9.031E-03	.3290	7.353E-03	.2679
11.85	.229	754.82	5.755E-03	.2097	7.529E-03	.2743	8.901E-03	.3243	7.255E-03	.2643
12.23	.236	769.17	6.141E-03	.2237	8.081E-03	.2944	9.597E-03	.3496	7.779E-03	.2834
12.60	.244	753.84	5.574E-03	.2031	7.273E-03	.2649	8.580E-03	.3126	7.011E-03	.2554
12.98	.251	725.07	4.583E-03	.1669	5.892E-03	.2146	6.874E-03	.2504	5.692E-03	.2074
13.35	.258	722.24	4.489E-03	.1635	5.763E-03	.2100	6.718E-03	.2447	5.570E-03	.2029
13.72	.265	741.35	5.133E-03	.1870	6.653E-03	.2424	7.810E-03	.2845	6.420E-03	.2339
14.08	.272	735.82	4.944E-03	.1801	6.390E-03	.2328	7.484E-03	.2725	6.168E-03	.2247
14.45	.279	744.38	5.239E-03	.1909	6.801E-03	.2478	7.993E-03	.2912	6.561E-03	.2390
14.81	.286	811.17	7.673E-03	.2868	1.064E-02	.3875	1.290E-02	.4701	1.020E-02	.3715
15.17	.293	810.99	7.865E-03	.2865	1.063E-02	.3871	1.269E-02	.4696	1.019E-02	.3711
15.53	.300	811.70	7.896E-03	.2877	1.067E-02	.3888	1.295E-02	.4718	1.023E-02	.3727
15.89	.307	811.79	7.901E-03	.2878	1.068E-02	.3891	1.296E-02	.4721	1.024E-02	.3730
16.25	.314	810.43	7.841E-03	.2857	1.059E-02	.3858	1.284E-02	.4678	1.015E-02	.3699
16.60	.321	812.92	7.951E-03	.2897	1.076E-02	.3919	1.306E-02	.4758	1.031E-02	.3756
16.96	.328	815.05	8.045E-03	.2931	1.090E-02	.3971	1.325E-02	.4828	1.045E-02	.3805

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
73	8	TILE INSERT	0.175	.010	.015	2.084E 06	3.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	615.8	1318	29.38	29.94	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0636	2.842	3831	5.572E-05	7.709E-08	2.769E 06	2.745E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.528	1.966	13.424	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	752.20	5.517E-03	.2010	7.192E-03	.2620	8.478E-03	.3089	6.933E-03	.2526
17.66	.341	816.65	8.117E-03	.2957	1.101E-02	.4011	1.340E-02	.4881	1.055E-02	.3843
18.01	.348	816.32	8.105E-03	.2953	1.099E-02	.4004	1.337E-02	.4872	1.053E-02	.3836
18.35	.355	816.13	8.094E-03	.2949	1.097E-02	.3998	1.335E-02	.4864	1.052E-02	.3831
18.70	.361	816.03	8.090E-03	.2947	1.097E-02	.3996	1.334E-02	.4861	1.051E-02	.3828
19.04	.368	817.15	8.140E-03	.2965	1.105E-02	.4024	1.344E-02	.4898	1.058E-02	.3855
19.38	.375	816.69	8.120E-03	.2958	1.101E-02	.4012	1.340E-02	.4883	1.055E-02	.3844
19.72	.381	814.35	8.016E-03	.2920	1.086E-02	.3955	1.319E-02	.4806	1.040E-02	.3790
20.06	.388	814.56	8.026E-03	.2924	1.087E-02	.3960	1.321E-02	.4813	1.042E-02	.3795
20.39	.394	816.77	8.124E-03	.2959	1.102E-02	.4015	1.341E-02	.4886	1.056E-02	.3846
20.73	.401	819.24	8.235E-03	.3000	1.119E-02	.4077	1.364E-02	.4968	1.072E-02	.3904
21.06	.407	820.22	8.279E-03	.3016	1.126E-02	.4101	1.373E-02	.5002	1.078E-02	.3928
21.39	.413	821.03	8.315E-03	.3029	1.131E-02	.4122	1.380E-02	.5029	1.083E-02	.3947
21.72	.420	819.22	8.234E-03	.3000	1.119E-02	.4076	1.364E-02	.4968	1.072E-02	.3904
22.05	.426	816.46	8.200E-03	.2987	1.114E-02	.4057	1.357E-02	.4943	1.067E-02	.3886
22.37	.432	819.64	8.253E-03	.3007	1.122E-02	.4087	1.368E-02	.4982	1.074E-02	.3914
22.69	.439	821.59	8.341E-03	.3039	1.135E-02	.4136	1.386E-02	.5046	1.087E-02	.3961
23.02	.445	820.55	8.295E-03	.3022	1.128E-02	.4110	1.376E-02	.5013	1.080E-02	.3936
23.34	.451	820.11	8.275E-03	.3014	1.125E-02	.4099	1.372E-02	.4996	1.078E-02	.3926
23.65	.457	820.69	8.301E-03	.3024	1.129E-02	.4114	1.378E-02	.5016	1.081E-02	.3940
23.97	.463	819.35	8.241E-03	.3002	1.120E-02	.4080	1.365E-02	.4973	1.073E-02	.3908
24.29	.469	816.49	8.114E-03	.2956	1.100E-02	.4009	1.339E-02	.4878	1.054E-02	.3841

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
73	8	TILE INSERT	0.175	.010	.015	2.084E 06	3.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	615.8	1318	29.38	29.94	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0636	2.842	3831	5.572E-05	7.709E-08	2.769E 06	2.745E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.528	1.966	13.424	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	816.63	8.120E-03	.2958	1.101E-02	.4012	1.340E-02	.4883	1.055E-02	.3844
24.91	.482	819.40	8.244E-03	.3003	1.120E-02	.4082	1.366E-02	.4975	1.073E-02	.3909
25.22	.487	816.83	8.129E-03	.2961	1.103E-02	.4019	1.342E-02	.4889	1.057E-02	.3849
25.53	.493	815.11	8.053E-03	.2934	1.091E-02	.3975	1.327E-02	.4833	1.046E-02	.3809
25.83	.499	807.78	7.729E-03	.2816	1.042E-02	.3796	1.261E-02	.4595	9.992E-03	.3640
26.14	.505	703.60	3.898E-03	.1420	4.962E-03	.1808	5.746E-03	.2093	4.801E-03	.1749

L = 4.311 FT

GROUP.	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
73	8	TILE INSERT	0.175	.010	.015	2.084E 06	3.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	615.8	1318	29.38	29.94	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	G - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0636	2.842	3831	5.572E-05	7.709E-08	2.769E 06	2.745E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.528	1.966	13.424	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.862	547.56	546.60	544.13	543.96	543.72	543.11	542.72	542.67	523.50	524.31
1.859	552.41	551.98	547.48	546.48	545.28	543.99	543.37	543.05	524.45	525.39
2.855	555.85	555.47	550.11	548.53	546.57	544.78	543.96	543.49	525.35	526.56
3.852	558.64	558.26	552.38	550.37	547.74	545.51	544.49	543.93	526.20	527.41
4.848	561.10	560.67	554.42	552.09	548.88	546.19	544.98	544.34	527.01	528.49
5.845	563.30	562.81	556.29	553.67	549.93	546.83	545.45	544.72	528.04	529.52
6.842	565.32	564.80	558.00	555.15	550.95	547.48	545.92	545.67	529.16	530.60
7.838	567.20	566.62	559.65	556.61	552.01	548.09	546.36	545.48	530.15	531.63
8.835	568.98	568.35	561.22	558.00	553.03	548.73	546.83	545.89	531.00	532.57
9.831	570.65	569.99	562.65	559.30	553.99	549.38	547.27	546.27	531.90	533.60
10.828	572.26	571.54	564.11	560.61	554.95	549.99	547.71	546.63	533.02	534.54
11.824	573.75	573.06	565.49	561.83	555.97	550.60	548.15	547.01	534.09	535.70
12.821	575.18	574.44	566.79	563.04	556.90	551.22	548.62	547.42	535.03	536.64
12.912	575.32	574.58	566.94	563.10	556.95	551.30	548.68	547.42	534.94	536.59
13.818	576.54	575.78	568.09	564.22	557.85	551.89	549.08	547.80	535.79	537.48
14.814	577.90	577.13	569.36	565.30	558.75	552.50	549.52	548.18	536.77	538.42
15.811	579.18	578.38	570.53	566.50	559.65	553.14	549.99	548.56	537.80	539.49
16.807	580.44	579.64	571.68	567.00	560.54	553.78	550.49	548.97	538.78	540.47
17.804	581.63	580.81	572.89	568.66	561.36	554.45	550.95	549.38	539.62	541.32

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
73	8	TILE INSERT	0.175	.010	.015	2.084E 06	3.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	615.8	1318	29.38	29.94	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0636	2.842	3831	5.572E-05	7.709E-08	2.769E 06	2.745E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
14.528	1.966	13.474	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
1.703	1
6.055	2
12.140	3

NASA/RI 0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75 PAGE 1
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	RLX	REK
74	8	TILE INSERT	0.175	.010	.015	2.073E 06	3.444E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.8	1320	39.10	39.94	30.00	-9.10	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0624	2.832	3833	5.547E-05	7.718E-08	2.755E 06	2.741E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
9.012	1.984	7.898	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(.91TO)	H(.91TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	581.54	9.510E-04	.0347	1.158E-03	.0422	1.299E-03	.0474	1.078E-03	.0393
8.15	.158	597.21	1.356E-03	.0495	1.658E-03	.0605	1.867E-03	.0681	1.542E-03	.0562
8.60	.166	609.06	1.651E-03	.0602	2.027E-03	.0739	2.287E-03	.0834	1.881E-03	.0686
9.05	.175	623.38	2.089E-03	.0762	2.577E-03	.0940	2.918E-03	.1065	2.388E-03	.0871
9.49	.183	726.01	5.901E-03	.2153	7.594E-03	.2770	8.866E-03	.3235	6.921E-03	.2525
9.93	.192	711.77	5.219E-03	.1904	6.666E-03	.2432	7.739E-03	.2823	6.093E-03	.2223
10.37	.200	753.37	7.032E-03	.2565	9.168E-03	.3345	1.061E-02	.3944	8.312E-03	.3032
10.81	.209	771.56	7.903E-03	.2883	1.041E-02	.3797	1.237E-02	.4512	9.395E-03	.3429
11.24	.217	755.28	7.122E-03	.2598	9.295E-03	.3391	1.097E-02	.4001	8.423E-03	.3073
11.67	.226	736.04	6.250E-03	.2280	8.076E-03	.2946	9.457E-03	.3450	7.348E-03	.2681
12.10	.234	733.40	6.355E-03	.2318	8.221E-03	.2999	9.635E-03	.3515	7.477E-03	.2728
12.52	.242	769.68	7.617E-03	.2779	9.998E-03	.3647	1.185E-02	.4323	9.040E-03	.3298
12.94	.250	760.58	7.373E-03	.2690	9.650E-03	.3520	1.141E-02	.4163	8.735E-03	.3187
13.36	.258	745.88	6.691E-03	.2441	8.085E-03	.3170	1.021E-02	.3726	7.898E-03	.2878
13.78	.266	813.98	1.018E-02	.3714	1.377E-02	.5024	1.672E-02	.6101	1.230E-02	.4487
14.19	.274	817.83	1.040E-02	.3794	1.411E-02	.5147	1.717E 02	.6264	1.259E-02	.4592
14.60	.282	822.36	1.066E-02	.3890	1.451E-02	.5295	1.771E-02	.6461	1.293E-02	.4717
15.01	.290	820.85	1.058E-02	.3858	1.438E-02	.5246	1.753E-02	.6396	1.282E-02	.4676
15.41	.298	823.06	1.053E-02	.3842	1.431E-02	.5220	1.744E-02	.6361	1.276E-02	.4654
15.81	.306	821.37	1.061E-02	.3870	1.443E-02	.5263	1.759E-02	.6419	1.286E-02	.4690
16.21	.313	821.12	1.059E-02	.3864	1.440E-02	.5255	1.750E-02	.6408	1.284E-02	.4684

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
74	8	TILE INSERT	0.175	.010	.015	2.073E 06	3.444E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.8	1320	39.10	39.94	30.00	-9.10	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0634	2.832	3833	5.547E-05	7.718E-08	2.755E 06	2.741E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.012	1.984	7.898	1000

X (IN)	X/L	TW (DEG R)	HI(TO)	HI(TO)/HREF	HI(0.9TO)	HI(.9TO)/HREF	HI(.85TO)	HI(.85TO)/HREF	HI(.934TO)	HI(.934TO)/HREF
16.81	.321	820.93	1.058E-02	.3860	1.439E-02	.5248	1.754E-02	.6399	1.282E-02	.4678
17.00	.329	823.83	1.075E-02	.3922	1.465E-02	.5344	1.789E-02	.6527	1.305E-02	.4759
17.39	.336	825.13	1.083E-02	.3950	1.477E-02	.5388	1.805E-02	.6586	1.315E-02	.4798
17.77	.344	826.13	1.089E-02	.3972	1.486E-02	.5421	1.818E-02	.6631	1.322E-02	.4824
18.16	.351	826.85	1.093E-02	.3988	1.493E-02	.5445	1.826E-02	.6663	1.328E-02	.4845
18.54	.358	824.75	1.081E-02	.3943	1.474E-02	.5376	1.801E-02	.6569	1.312E-02	.4786
18.92	.365	824.04	1.077E-02	.3928	1.467E-02	.5352	1.792E-02	.6538	1.306E-02	.4766
19.29	.373	824.25	1.078E-02	.3932	1.469E-02	.5359	1.795E-02	.6548	1.308E-02	.4772
19.66	.380	822.28	1.066E-02	.3889	1.451E-02	.5292	1.770E-02	.6457	1.292E-02	.4715
20.03	.387	821.85	1.064E-02	.3881	1.448E-02	.5281	1.766E-02	.6442	1.290E-02	.4706
20.40	.394	826.04	1.089E-02	.3971	1.486E-02	.5420	1.817E-02	.6628	1.322E-02	.4823
20.76	.401	827.26	1.096E-02	.3998	1.497E-02	.5461	1.832E-02	.6684	1.332E-02	.4858
21.12	.408	827.89	1.100E-02	.4011	1.503E-02	.5482	1.840E-02	.6712	1.337E-02	.4876
21.48	.415	828.41	1.103E-02	.4023	1.508E-02	.5500	1.846E-02	.6736	1.341E-02	.4891
21.84	.422	825.95	1.088E-02	.3970	1.485E-02	.5417	1.816E-02	.6625	1.322E-02	.4821
22.19	.429	825.57	1.086E-02	.3962	1.482E-02	.5405	1.812E-02	.6609	1.319E-02	.4811
22.54	.436	827.84	1.099E-02	.4011	1.502E-02	.5481	1.840E-02	.6711	1.336E-02	.4875
22.88	.442	828.64	1.104E-02	.4028	1.510E-02	.5508	1.850E-02	.6747	1.343E-02	.4898
23.23	.449	827.00	1.095E-02	.3993	1.495E-02	.5453	1.829E-02	.6674	1.330E-02	.4852
23.57	.456	828.53	1.104E-02	.4026	1.509E-02	.5505	1.848E-02	.6743	1.342E-02	.4895
23.91	.462	827.61	1.098E-02	.4007	1.501E-02	.5474	1.837E-02	.6702	1.335E-02	.4870
24.24	.469	824.55	1.080E-02	.3941	1.473E-02	.5373	1.799E-02	.6565	1.311E-02	.4783

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
74	8	TILE INSERT	0.175	.010	.015	2.073E 06	3.444E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.8	1320	39.10	39.94	30.00	-9.10	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0634	2.832	3833	5.547E-05	7.718E-08	2.755E 06	2.741E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.012	1.984	7.898	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	822.22	1.067E-02	.3891	1.452E-02	.5296	1.771E-02	.6462	1.293E-02	.4718
24.90	.481	825.84	1.088E-02	.3969	1.484E-02	.5416	1.815E-02	.6623	1.321E-02	.4820
25.23	.488	825.56	1.086E-02	.3963	1.482E-02	.5406	1.812E-02	.6610	1.319E-02	.4812
25.55	.494	822.71	1.070E-02	.3902	1.456E-02	.5313	1.777E-02	.6484	1.297E-02	.4733
25.87	.500	816.95	1.036E-02	.3781	1.405E-02	.5126	1.709E-02	.6235	1.254E-02	.4574

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AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
74	8	TILE INSERT	0.175	.010	.015	2.073E 06	3.444E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.8	1320	39.10	39.94	30.00	-9.10	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0634	2.832	3833	5.547E-05	7.718E-08	2.755E 06	2.741E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
9.012	1.984	7.898	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.870	549.69	549.70	547.03	547.00	547.06	546.39	546.15	546.24	530.64	533.28
1.867	554.30	554.71	550.63	549.93	548.90	547.56	546.94	546.68	533.42	536.95
2.863	557.56	558.11	553.37	552.20	550.39	548.52	547.68	547.27	535.83	539.98
3.860	560.23	560.84	555.64	554.16	551.74	549.43	548.35	547.82	538.24	542.83
4.856	562.54	563.15	557.68	555.90	552.99	550.25	548.96	548.35	540.56	545.23
5.853	564.66	565.23	559.53	557.56	554.16	551.07	549.58	548.90	542.83	547.71
6.850	566.64	567.16	561.27	559.07	555.29	551.80	550.13	549.37	545.23	550.15
7.846	568.52	568.98	562.89	560.52	556.40	552.53	550.69	549.84	547.58	552.63
7.874	565.52	569.03	562.92	560.56	556.43	552.55	550.72	549.87	547.58	552.63
8.843	570.21	570.67	564.45	561.91	557.47	553.25	551.24	550.34	549.93	554.89
9.839	571.65	572.28	565.95	563.27	558.52	553.95	551.77	550.83	552.01	557.09
10.836	573.40	573.86	567.34	564.57	559.53	554.68	552.26	551.27	554.22	559.12
11.832	574.92	575.29	568.75	565.64	560.58	555.38	552.62	551.74	556.48	561.42
12.829	576.38	576.72	570.07	567.08	561.65	556.08	553.37	552.18	558.82	563.79

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
74	8	TILE INSERT	0.175	.010	.015	2.073E 06	3.444E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.8	1320	39.10	39.94	30.00	-9.10	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0634	2.832	3833	5.547E-05	7.718E-08	2.755E 06	2.741E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.012	1.984	7.898	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.619	1
9.556	2

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
75	8	TILE INSERT	0.175	.010	.015	1.882E 06	3.127E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.1	1320	29.52	30.02	30.00	.48	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0575	2.571	3833	5.036E-05	7.717E-08	2.501E 06	2.611E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.027	2.075	14.862	1000

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	809.96	7.392E-03	.2831	9.974E-03	.3820	1.209E-02	.4628	9.558E-03	.3660
17.66	.341	810.85	7.429E-03	.2845	1.003E-02	.3841	1.216E-02	.4656	9.611E-03	.3680
18.01	.348	812.68	7.505E-03	.2874	1.015E-02	.3886	1.231E-02	.4715	9.720E-03	.3722
18.35	.355	812.02	7.515E-03	.2878	1.016E-02	.3891	1.233E-02	.4723	9.734E-03	.3728
18.70	.361	811.09	7.439E-03	.2849	1.005E-02	.3847	1.218E-02	.4664	9.626E-03	.3686
19.04	.368	810.71	7.424E-03	.2843	1.002E-02	.3838	1.215E-02	.4653	9.604E-03	.3678
19.38	.375	811.99	7.477E-03	.2863	1.010E-02	.3869	1.226E-02	.4693	9.679E-03	.3707
19.72	.381	810.76	7.426E-03	.2844	1.003E-02	.3840	1.215E-02	.4654	9.607E-03	.3679
20.06	.388	809.74	7.384E-03	.2828	9.962E-03	.3815	1.207E-02	.4622	9.547E-03	.3656
20.39	.394	811.72	7.466E-03	.2859	1.009E-02	.3863	1.223E-02	.4685	9.664E-03	.3701
20.73	.401	812.86	7.514E-03	.2877	1.016E-02	.3891	1.233E-02	.4722	9.732E-03	.3727
21.06	.407	814.62	7.598E-03	.2906	1.027E-02	.3934	1.248E-02	.4779	9.838E-03	.3768
21.39	.413	815.99	7.646E-03	.2928	1.036E-02	.3967	1.260E-02	.4824	9.921E-03	.3799
21.72	.420	814.72	7.592E-03	.2907	1.026E-02	.3936	1.249E-02	.4782	9.845E-03	.3770
22.05	.426	813.03	7.522E-03	.2880	1.017E-02	.3895	1.235E-02	.4728	9.744E-03	.3731
22.37	.432	813.65	7.548E-03	.2890	1.021E-02	.3910	1.240E-02	.4748	9.781E-03	.3746
22.69	.439	816.13	7.651E-03	.2930	1.037E-02	.3970	1.261E-02	.4828	9.929E-03	.3802
23.02	.445	815.96	7.645E-03	.2928	1.036E-02	.3967	1.260E-02	.4823	9.920E-03	.3799
23.34	.451	813.84	7.556E-03	.2894	1.022E-02	.3915	1.242E-02	.4754	9.793E-03	.3750
23.65	.457	815.46	7.624E-03	.2920	1.033E-02	.3955	1.255E-02	.4807	9.891E-03	.3788
23.97	.463	815.36	7.620E-03	.2918	1.032E-02	.3953	1.255E-02	.4804	9.885E-03	.3785
24.29	.469	811.88	7.475E-03	.2862	1.010E-02	.3868	1.225E-02	.4691	9.676E-03	.3705

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
75	8	TILE INSERT	0.175	.010	.015	1.882E 06	3.127E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.1	1320	29.52	30.02	30.00	.48	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0575	2.571	3833	5.036E-05	7.717E-08	2.501E 06	2.611E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.027	2.075	14.862	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	809.18	7.363E-03	.2919	9.930E-03	.3803	1.203E-02	.4605	9.516E-03	.3644
24.91	.482	811.19	7.446E-03	.2952	1.006E-02	.3851	1.219E-02	.4670	9.636E-03	.3690
25.22	.487	809.23	7.365E-03	.2920	9.933E-03	.3804	1.203E-02	.4607	9.519E-03	.3645
25.53	.493	805.61	7.213E-03	.2762	9.704E-03	.3716	1.173E-02	.4492	9.304E-03	.3563
25.83	.499	799.67	6.970E-03	.2669	9.340E-03	.3577	1.125E-02	.4310	8.960E-03	.3431
26.14	.505	720.07	4.173E-03	.1598	5.351E-03	.2049	6.230E-03	.2386	5.169E-03	.1980

AEDC (ARO, INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0869
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
75	8	TILE INSERT	0.175	.010	.015	1.882E 06	3.127E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.1	1320	29.52	30.02	30.00	.48	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0575	2.571	3833	5.036E-05	7.717E-08	2.501E 06	2.611E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
16.027	2.075	14.862	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
.910	540.48	539.60	537.18	537.12	537.36	537.00	536.94	537.06	523.55	524.85
1.907	545.10	544.66	540.37	539.54	538.66	537.63	537.54	537.39	524.31	525.57
2.903	548.32	548.09	542.90	541.51	539.89	538.60	538.07	537.80	525.12	526.60
3.900	551.01	550.63	545.07	543.28	541.01	539.28	538.60	538.24	525.84	527.50
4.897	553.31	552.93	546.97	544.92	542.07	539.92	539.07	538.63	526.60	528.22
5.893	555.44	554.97	548.79	546.42	543.13	540.57	539.51	539.01	527.24	529.16
6.890	557.38	556.89	550.45	547.86	544.10	541.19	539.95	539.33	528.22	530.06
7.886	559.24	558.66	552.03	549.26	545.10	541.78	540.39	539.72	529.21	531.14
8.883	560.95	560.37	553.55	550.60	546.09	542.37	540.64	540.10	529.97	531.85
9.879	562.54	561.94	555.00	551.91	547.03	542.98	541.25	540.48	530.69	532.61
10.876	564.10	563.50	556.37	553.17	547.97	543.60	541.69	540.84	531.54	533.42
11.873	565.61	564.94	557.70	554.36	548.93	544.19	542.10	541.19	532.48	534.40
12.869	567.02	566.33	559.01	555.55	549.84	544.80	542.54	541.54	533.46	535.30
13.866	568.40	567.65	560.29	556.69	550.77	545.42	543.01	541.93	534.22	536.05
14.844	569.64	568.92	561.47	557.82	551.65	546.04	543.39	542.31	534.89	536.72
14.862	569.70	568.95	561.50	557.85	551.68	546.04	543.42	542.28	534.94	536.81
15.859	570.93	570.18	562.66	558.92	552.55	546.65	543.86	542.66	535.88	537.62
16.855	572.17	571.42	563.82	560.00	553.43	547.27	544.30	543.01	536.77	538.51
17.852	573.40	572.60	564.91	561.04	554.33	547.88	544.80	543.42	537.62	539.49
18.849	574.57	573.74	566.01	562.08	555.18	548.52	545.24	543.81	538.42	540.20
19.845	575.66	574.83	567.08	563.06	556.05	549.14	545.68	544.22	539.22	540.87

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
75	8	TILE INSERT	0.175	.010	.015	1.882E 06	3.127E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.1	1320	29.52	30.02	30.00	.48	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
45.8	.0575	2.571	3833	5.036E-05	7.717E-08	2.501E 06	2.611E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.027	2.075	14.862	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
20.842	576.75	575.95	568.11	564.13	556.86	549.78	546.18	544.60	540.02	541.72

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
75	8	TILE INSERT	0.175	.010	.015	1.882E 06	3.127E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.1	1320	29.52	30.02	30.00	.48	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.8	.0575	2.571	3833	5.036E-05	7.717E-08	2.501E 06	2.611E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.027	2.075	14.862	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
6.903	1
11.749	2
16.417	3

L = 4.311 FT

GROUP.	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
77	8	TILE INSERT	0.175	.010	.015	1.687E 06	2.802E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.5	1314	39.33	40.01	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0515	2.295	3825	4.514E-05	7.702E-08	2.242E 06	2.465E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.243	3.479	11.290	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	57[illegible].72	6.714E-04	.0272	8.155E-04	.0331	9.136E-04	.0371	7.599E-04	.0308
8.15	.158	586.34	1.000E-03	.0406	1.221E-03	.0495	1.372E-03	.0556	1.135E-03	.0461
8.60	.166	597.85	1.256E-03	.0510	1.538E-03	.0624	1.733E-03	.0703	1.429E-03	.0580
9.05	.175	615.80	1.752E-03	.0711	2.160E-03	.0876	2.445E-03	.0992	2.001E-03	.0812
9.49	.183	743.55	5.692E-03	.2309	7.396E-03	.3000	8.697E-03	.3528	6.712E-03	.2722
9.93	.192	722.28	4.903E-03	.1989	6.303E-03	.2557	7.352E-03	.2982	5.744E-03	.2330
10.37	.200	754.59	6.123E-03	.2484	8.003E-03	.3246	9.454E-03	.3835	7.245E-03	.2939
10.81	.209	771.63	6.819E-03	.2766	9.000E-03	.3650	1.071E-02	.4345	8.116E-03	.3292
11.24	.217	78[illegible].79	7.212E-03	.2925	9.570E-03	.3882	1.144E-02	.4640	8.611E-03	.3493
11.67	.226	79[illegible].6[illegible]	7.647E-03	.3102	1.021E-02	.4142	1.227E-02	.4975	9.164E-03	.3717
12.10	.234	797.96	7.986E-03	.3240	1.071E-02	.4346	1.292E-02	.5241	9.598E-03	.3893
12.52	.242	802.45	8.198E-03	.3325	1.103E-02	.4475	1.334E-02	.5409	9.870E-03	.4004
12.94	.250	805.90	8.364E-03	.3393	1.128E-02	.4576	1.366E-02	.5542	1.008E-02	.4090
13.36	.258	807.18	8.426E-03	.3418	1.137E-02	.4614	1.379E-02	.5592	1.016E-02	.4123
13.78	.266	807.07	8.421E-03	.3416	1.137E-02	.4611	1.378E-02	.5588	1.016E-02	.4120
14.19	.274	811.35	8.629E-03	.3500	1.168E-02	.4739	1.419E-02	.5758	1.043E-02	.4229
14.60	.282	815.49	8.831E-03	.3582	1.199E-02	.4864	1.460E-02	.5924	1.069E-02	.4336
15.01	.290	815.92	8.852E-03	.3591	1.202E-02	.4877	1.465E-02	.5942	1.072E-02	.4347
15.41	.298	814.83	8.799E-03	.3569	1.194E-02	.4844	1.454E-02	.5898	1.065E-02	.4319
15.81	.306	817.81	8.945E-03	.3628	1.217E-02	.4935	1.484E-02	.6019	1.084E-02	.4396
16.21	.313	818.26	8.968E-03	.3638	1.220E-02	.4949	1.489E-02	.6038	1.087E-02	.4408

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
77	8	TILE INSERT	0.175	.010	.015	1.687E 06	2.802E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.5	1314	39.33	40.01	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0515	2.295	3825	4.514E-05	7.702E-08	2.242E 06	2.465E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.243	3.479	11.290	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	817.20	8.916E-03	.3617	1.212E-02	.4917	1.478E-02	.5995	1.080E-02	.4381
17.00	.329	819.95	9.052E-03	.3672	1.233E-02	.5002	1.506E-02	.6108	1.098E-02	.4452
17.39	.336	821.24	9.116E-03	.3698	1.243E-02	.5042	1.519E-02	.6162	1.106E-02	.4486
17.77	.344	822.33	9.170E-03	.3720	1.251E-02	.5076	1.530E-02	.6208	1.113E-02	.4515
18.16	.341	822.21	9.169E-03	.3718	1.251E-02	.5073	1.529E-02	.6203	1.112E-02	.4513
18.54	.358	820.44	9.077E-03	.3682	1.237E-02	.5018	1.511E-02	.6129	1.101E-02	.4466
18.92	.366	819.72	9.042E-03	.3668	1.232E-02	.4995	1.504E-02	.6100	1.096E-02	.4447
19.29	.373	821.37	9.124E-03	.3701	1.244E-02	.5047	1.521E-02	.6168	1.107E-02	.4491
19.66	.380	819.85	9.048E-03	.3670	1.233E-02	.5000	1.505E-02	.6105	1.097E-02	.4451
20.03	.387	819.48	9.030E-03	.3663	1.230E-02	.4988	1.501E-02	.6090	1.095E-02	.4441
20.40	.394	822.31	9.171E-03	.3720	1.252E-02	.5077	1.531E-02	.6209	1.113E-02	.4516
20.76	.401	823.86	9.249E-03	.3752	1.264E-02	.5125	1.547E-02	.6274	1.123E-02	.4557
21.12	.408	824.35	9.273E-03	.3762	1.267E-02	.5141	1.552E-02	.6295	1.127E-02	.4570
21.48	.415	825.10	9.311E-03	.3777	1.273E-02	.5165	1.560E-02	.6328	1.132E-02	.4590
21.84	.422	821.86	9.150E-03	.3711	1.248E-02	.5063	1.526E-02	.6190	1.110E-02	.4504
22.19	.429	821.88	9.151E-03	.3712	1.248E-02	.5064	1.526E-02	.6191	1.111E-02	.4505
22.54	.436	824.10	9.262E-03	.3757	1.266E-02	.5134	1.549E-02	.6285	1.125E-02	.4564
22.88	.442	825.13	9.314E-03	.3778	1.274E-02	.5167	1.560E-02	.6330	1.132E-02	.4592
23.23	.449	822.62	9.189E-03	.3727	1.254E-02	.5087	1.534E-02	.6223	1.116E-02	.4525
23.57	.456	822.63	9.189E-03	.3727	1.254E-02	.5088	1.534E-02	.6224	1.116E-02	.4525
23.91	.462	822.99	9.208E-03	.3735	1.257E-02	.5099	1.538E-02	.6239	1.118E-02	.4535
24.24	.469	820.04	9.062E-03	.3676	1.235E-02	.5008	1.508E-02	.6116	1.099E-02	.4458

NASA/RI 0469
V41R-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
77	8	TILE INSERT	0.175	.010	.015	1.687E 06	2.802E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.5	1314	39.33	40.01	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0515	2.295	3825	4.514E-05	7.702E-08	2.242E 06	2.465E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.243	3.479	11.290	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	817.74	8.948E-03	.3630	1.217E-02	.4937	1.484E-02	.6021	1.084E-02	.4397
24.90	.481	821.49	9.133E-03	.3705	1.246E-02	.5053	1.523E-02	.6176	1.108E-02	.4496
25.23	.488	821.05	9.112E-03	.3696	1.242E-02	.5039	1.518E-02	.6158	1.106E-02	.4484
25.55	.494	818.67	8.994E-03	.3648	1.224E-02	.4965	1.494E-02	.6059	1.090E-02	.4422
25.87	.500	813.96	8.764E-03	.3555	1.189E-02	.4822	1.446E-02	.5867	1.060E-02	.4300

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
77	8	TILE INSERT	0.175	.010	.015	1.687E 06	2.802E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.5	1314	39.33	40.01	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0515	2.295	3825	4.514E-05	7.702E-08	2.242E 06	2.465E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
13.243	3.479	11.290	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.526	537.30	537.45	534.49	534.28	533.90	533.22	532.86	532.92	532.08	534.40
2.522	540.78	541.22	537.24	536.44	535.26	533.96	533.34	533.19	533.69	536.19
3.519	543.45	543.98	539.48	538.30	536.50	534.73	533.90	533.63	535.65	538.38
4.516	545.74	546.27	541.42	539.98	537.65	535.44	534.46	534.08	537.57	540.43
5.512	547.79	548.29	543.22	541.51	538.77	536.18	534.99	534.52	539.49	542.56
6.509	549.69	550.16	544.86	542.95	539.84	536.69	535.50	534.99	541.23	544.38
7.505	551.42	551.89	546.42	544.33	540.84	537.56	536.03	535.44	543.10	546.21
8.502	553.08	553.49	547.88	545.65	541.81	538.18	536.53	535.85	545.01	548.20
9.498	554.62	555.03	549.28	546.91	542.78	538.83	537.00	536.27	546.92	550.06
10.495	556.11	556.46	550.60	548.14	543.75	539.48	537.51	536.71	548.73	551.92
11.272	557.21	557.56	551.65	549.05	544.48	540.01	537.86	537.03	549.98	553.21
11.492	557.53	557.85	551.91	549.31	544.69	540.13	537.98	537.15	550.46	553.74
12.488	558.89	559.19	553.17	550.48	545.62	540.81	538.48	537.56	552.14	555.37
13.485	560.17	560.46	554.39	551.59	546.53	541.42	538.95	537.98	554.05	557.18
14.481	561.44	561.70	555.58	552.70	547.41	542.07	539.45	538.42	555.90	559.08
15.478	562.56	562.89	556.69	553.75	548.32	542.72	539.95	538.83	557.67	560.80
16.474	563.82	564.08	557.79	554.80	549.20	543.39	540.45	539.30	559.26	562.38
17.471	564.97	565.14	558.87	555.76	550.19	544.04	540.92	539.72	560.89	564.06

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
77	8	TILE INSERT	0.175	.010	.015	1.687E 06	2.802E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.5	1314	39.33	40.01	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0515	2.295	3825	4.514E-05	7.702E-08	2.242E 06	2.465E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.243	3.479	11.290	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.370	1
9.759	2
12.607	3

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
78	8	TILE INSERT	0.175	.010	.015	1.700E 06	2.824E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.1	1307	29.56	30.01	30.00	.44	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0514	2.293	3814	4.536E-05	7.659E-08	2.259E 06	2.462E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
	1.984		1000

*** NO INFRARED DATA ***

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
78	8	TILE INSERT	0.175	.010	.015	1.700E 06	2.824E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.1	1307	29.56	30.01	30.00	.44	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0514	2.293	3814	4.536E-05	7.659E-08	2.259E 06	2.462E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
	1.984		1000

*** NO THERMOCOUPLE READINGS ***

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
78	8	TILE INSERT	0.175	.010	.015	1.700E 06	2.824E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.1	1307	29.56	30.01	30.00	.44	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.1	.0514	2.293	3814	4.536E-05	7.659E-08	2.259E 06	2.462E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
	1.984		1000

*** NO PHOTOGRAPHS TAKEN ***

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
79	8	TILE INSERT	0.175	.010	.015	1.483E 06	2.463E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.9	1296	29.62	30.01	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0443	1.976	3799	3.941E-05	7.599E-08	1.970E 06	2.283E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
25.376	2.478	23.985	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	649.35	1.826E-03	.0800	2.284E-03	.1001	2.611E-03	.1144	2.215E-03	.0970
10.33	.200	686.63	2.632E-03	.1153	3.342E-03	.1464	3.864E-03	.1693	3.234E-03	.1417
10.71	.207	708.54	3.155E-03	.1382	4.047E-03	.1773	4.714E-03	.2065	3.910E-03	.1713
11.10	.214	715.65	3.332E-03	.1460	4.289E-03	.1879	5.009E-03	.2194	4.141E-03	.1814
11.48	.222	730.02	3.700E-03	.1621	4.799E-03	.2102	5.635E-03	.2469	4.628E-03	.2027
11.85	.229	743.87	4.071E-03	.1784	5.319E-03	.2330	6.282E-03	.2752	5.124E-03	.2245
12.23	.236	755.13	4.386E-03	.1921	5.767E-03	.2526	6.844E-03	.2998	5.549E-03	.2431
12.60	.244	765.78	4.694E-03	.2056	6.211E-03	.2721	7.409E-03	.3246	5.971E-03	.2616
12.98	.251	774.22	4.947E-03	.2167	6.580E-03	.2883	7.881E-03	.3453	6.320E-03	.2769
13.35	.258	781.53	5.172E-03	.2266	6.912E-03	.3028	8.310E-03	.3641	6.635E-03	.2907
13.72	.265	785.89	5.342E-03	.2340	7.164E-03	.3139	8.638E-03	.3784	6.873E-03	.3011
14.08	.272	791.61	5.494E-03	.2407	7.392E-03	.3238	8.936E-03	.3915	7.087E-03	.3105
14.45	.279	795.76	5.631E-03	.2467	7.598E-03	.3329	9.206E-03	.4033	7.281E-03	.3190
14.81	.286	795.62	5.626E-03	.2465	7.591E-03	.3326	9.197E-03	.4029	7.275E-03	.3187
15.17	.293	797.29	5.678E-03	.2488	7.670E-03	.3360	9.301E-03	.4075	7.349E-03	.3220
15.53	.300	798.33	5.715E-03	.2504	7.726E-03	.3385	9.375E-03	.4107	7.402E-03	.3243
15.89	.307	798.33	5.717E-03	.2504	7.728E-03	.3386	9.378E-03	.4108	7.404E-03	.3244
16.25	.314	797.88	5.701E-03	.2498	7.705E-03	.3375	9.347E-03	.4095	7.382E-03	.3234
16.60	.321	801.58	5.826E-03	.2553	7.894E-03	.3459	9.598E-03	.4205	7.561E-03	.3312
16.96	.328	804.97	5.943E-03	.2604	8.072E-03	.3536	9.834E-03	.4308	7.728E-03	.3385
17.31	.335	804.88	5.940E-03	.2602	8.068E-03	.3534	9.828E-03	.4305	7.723E-03	.3384

C-

NASA/RI 0H60
V41H-E9A

AEDC (ARO.INC.) ARNOLD AFS. TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
79	8	TILE INSERT	0.175	.010	.015	1.483E 06	2.463E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.9	1296	29.62	30.01	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0443	1.976	3799	3.941E-05	7.599E-08	1.970E 06	2.283E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.376	2.478	23.985	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	805.55	5.963E-03	.2612	8.103E-03	.3550	9.875E-03	.4326	7.757E-03	.3398
18.01	.348	805.58	5.964E-03	.2613	8.105E-03	.3551	9.877E-03	.4327	7.759E-03	.3399
18.35	.355	804.90	5.941E-03	.2603	8.069E-03	.3535	9.829E-03	.4306	7.725E-03	.3384
18.70	.361	806.43	5.925E-03	.2596	8.044E-03	.3524	9.796E-03	.4292	7.701E-03	.3374
19.04	.368	806.07	5.982E-03	.2620	8.131E-03	.3562	9.912E-03	.4342	7.783E-03	.3410
19.38	.375	806.41	5.993E-03	.2626	8.149E-03	.3570	9.936E-03	.4353	7.800E-03	.3417
19.72	.381	804.56	5.929E-03	.2598	8.051E-03	.3527	9.806E-03	.4296	7.709E-03	.3377
20.06	.388	805.93	5.976E-03	.2618	8.122E-03	.3558	9.900E-03	.4337	7.775E-03	.3406
20.39	.394	807.31	6.025E-03	.2640	8.195E-03	.3591	1.000E-02	.4381	7.846E-03	.3437
20.73	.401	809.26	6.094E-03	.2670	8.303E-03	.3638	1.014E-02	.4443	7.945E-03	.3481
21.06	.407	811.73	6.145E-03	.2692	8.382E-03	.3672	1.025E-02	.4489	8.019E-03	.3513
21.39	.413	811.41	6.169E-03	.2702	8.419E-03	.3688	1.030E-02	.4511	8.053E-03	.3528
21.72	.420	808.34	6.062E-03	.2655	8.254E-03	.3616	1.008E-02	.4414	7.898E-03	.3460
22.05	.426	807.79	6.042E-03	.2647	8.224E-03	.3603	1.004E-02	.4397	7.870E-03	.3448
22.37	.432	809.73	6.111E-03	.2677	8.329E-03	.3649	1.018E-02	.4458	7.969E-03	.3491
22.69	.439	811.99	6.189E-03	.2711	8.451E-03	.3702	1.034E-02	.4530	8.083E-03	.3541
23.02	.445	810.29	6.130E-03	.2685	8.355E-03	.3662	1.022E-02	.4476	7.997E-03	.3503
23.34	.451	809.27	6.095E-03	.2670	8.304E-03	.3638	1.014E-02	.4444	7.946E-03	.3481
23.65	.457	810.39	6.134E-03	.2687	8.365E-03	.3665	1.022E-02	.4479	8.003E-03	.3506
23.97	.463	809.42	6.100E-03	.2672	8.313E-03	.3642	1.015E-02	.4449	7.954E-03	.3485
24.29	.469	805.68	5.969E-03	.2615	8.112E-03	.3554	9.886E-03	.4331	7.765E-03	.3402
24.60	.475	805.33	5.957E-03	.2610	8.093E-03	.3546	9.802E-03	.4320	7.748E-03	.3394

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
79.	8	TILE INSERT	0.175	.010	.015	1.483E 06	2.463E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.9	1296	29.62	30.01	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0443	1.976	3799	3.941E-05	7.599E-08	1.970E 06	2.283E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
25.376	2.478	23.985	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	807.29	6.025E-03	.2640	8.198E-03	.3592	1.000E-02	.4381	7.846E-03	.3437
25.22	.487	803.49	5.894E-03	.2582	7.997E-03	.3503	9.733E-03	.4264	7.657E-03	.3354
25.53	.493	800.66	5.797E-03	.2540	7.850E-03	.3439	9.539E-03	.4179	7.519E-03	.3294
25.83	.499	792.68	5.532E-03	.2423	7.448E-03	.3263	9.009E-03	.3947	7.141E-03	.3128
24.14	.505	673.91	2.345E-03	.1027	2.961E-03	.1297	3.410E-03	.1494	2.864E-03	.1256

NASA/RI OH60
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
79	B	TILE INSERT	0.175	.010	.015	1.483E 06	2.463E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.9	1296	29.62	30.01	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0443	1.976	3799	3.541E-05	7.599E-08	1.970E 06	2.283E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
25.376	2.478	23.985	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.087	535.05	534.73	530.43	532.18	531.91	531.56	531.32	531.35	528.22	528.89
2.083	538.77	538.72	533.04	534.14	533.19	532.27	531.83	531.68	528.67	529.25
3.080	541.45	541.42	535.02	535.79	534.23	532.89	532.27	532.03	528.94	529.70
4.076	543.72	543.63	536.74	537.30	535.17	533.48	532.69	532.33	529.43	530.24
5.073	545.65	545.54	538.27	538.66	536.12	534.02	533.10	532.66	530.06	530.91
6.070	547.44	547.27	539.78	539.92	536.94	534.55	533.48	532.98	530.60	531.45
7.066	549.08	548.85	541.13	541.16	537.80	535.08	533.87	533.34	531.00	531.90
8.063	550.60	550.31	542.34	542.34	538.66	535.62	534.23	533.63	531.36	532.39
9.059	552.09	551.71	543.45	543.45	539.45	536.12	534.58	533.90	532.08	532.93
10.056	553.46	553.09	544.63	544.54	540.31	536.62	534.96	534.23	532.66	533.64
11.052	554.77	554.36	545.71	545.60	541.10	537.12	535.32	534.58	533.15	534.09
12.049	556.02	555.58	546.86	546.65	541.90	537.65	535.70	534.88	533.51	534.63
13.046	557.21	556.77	547.85	547.65	542.69	538.18	536.09	535.17	534.18	535.03
14.042	558.34	557.91	548.88	548.61	543.45	538.69	536.44	535.47	534.71	535.70
15.039	559.47	558.98	549.69	549.35	544.25	539.22	536.93	535.79	535.25	536.28
16.035	560.58	560.02	550.66	550.51	544.98	539.75	537.21	536.12	535.74	536.72
17.032	561.62	561.07	551.71	551.42	545.74	540.28	537.59	536.44	536.23	537.22
18.028	562.63	562.05	552.76	552.29	546.47	540.81	537.98	536.77	536.86	537.80
19.025	563.61	563.04	553.72	553.17	547.21	541.34	538.36	537.09	537.53	538.51
20.022	564.57	563.96	554.71	554.01	547.94	541.87	538.77	537.45	537.97	538.91
21.018	565.49	564.91	555.70	554.86	548.67	542.42	539.19	537.80	538.38	539.31

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
79	8	TILE INSERT	0.175	.010	.015	1.483E 06	2.463E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.9	1296	29.62	30.01	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0443	1.976	3799	3.941E-05	7.599E-08	1.970E 06	2.283E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.376	2.478	23.985	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.015	566.41	565.81	556.60	555.70	549.37	542.95	539.60	538.13	538.95	539.89
23.011	567.31	566.64	557.50	556.51	550.07	543.48	540.01	538.45	539.49	540.56
23.967	568.14	567.45	558.40	557.24	550.75	544.01	540.42	538.80	539.94	540.92
24.008	568.17	567.51	558.43	557.30	550.75	544.04	540.42	538.83	540.16	541.09
25.004	569.01	568.37	559.42	558.05	551.45	544.57	540.84	539.19	540.51	541.49
25.001	569.84	569.15	560.43	558.84	552.15	545.10	541.25	539.54	540.92	542.12
26.998	570.67	569.98	561.44	559.56	552.79	545.62	541.66	539.89	541.54	542.47
27.994	571.45	570.76	562.37	560.31	553.46	546.12	542.10	540.22	542.16	543.18
28.991	572.22	571.53	563.27	561.01	554.16	546.65	542.51	540.60	542.74	543.72

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
79	8	TILE INSERT	0.175	.010	.015	1.483E 06	2.463E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.9	1296	29.62	30.01	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0443	1.976	3799	3.941E-05	7.599E-08	1.970E 06	2.283E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.376	2.478	23.985	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.800	1
9.873	2
24.776	3

NASA/RI OH6Q
.V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A1	8	TILE INSERT	0.175	.010	.015	1.307E 06	2.172E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA=MODEL UNCORRECTED	ALPHA=MODEL CORRECTED	ALPHA=PREBEND	ALPHA=SECTOR	ALPHA=NOM	YAW
7.97	374.3	1297	39.50	40.02	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0393	1.747	3799	3.484E-05	7.618E-08	1.737E 06	2.146E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
22.797	2.469	21.411	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	567.41	4.498E-04	.0210	5.460E-04	.0254	6.114E-04	.0285	5.089E-04	.0237
8.15	.158	579.84	6.405E-04	.0298	7.798E-04	.0363	8.749E-04	.0408	7.260E-04	.0338
8.60	.166	591.37	8.266E-04	.0385	1.009E-03	.0470	1.135E-03	.0529	9.386E-04	.0437
9.05	.175	619.90	1.325E-03	.0618	1.630E-03	.0760	1.843E-03	.0859	1.512E-03	.0704
9.49	.183	739.15	4.133E-03	.1926	5.300E-03	.2470	6.176E-03	.2878	4.834E-03	.2253
9.93	.192	697.89	3.029E-03	.1411	3.820E-03	.1780	4.396E-03	.2048	3.508E-03	.1634
10.37	.200	733.42	3.972E-03	.1851	5.081E-03	.2367	5.909E-03	.2753	4.639E-03	.2161
10.81	.209	747.20	4.366E-03	.2034	5.618E-03	.2618	6.565E-03	.3059	5.117E-03	.2384
11.24	.217	761.32	4.788E-03	.2231	6.203E-03	.2890	7.285E-03	.3395	5.634E-03	.2625
11.67	.226	782.78	5.472E-03	.2550	7.166E-03	.3339	8.491E-03	.3956	6.480E-03	.3020
12.10	.234	796.69	5.947E-03	.2771	7.848E-03	.3657	9.358E-03	.4360	7.075E-03	.3297
12.52	.242	805.80	6.274E-03	.2923	8.324E-03	.3878	9.969E-03	.4645	7.487E-03	.3489
12.94	.250	812.11	6.506E-03	.3032	8.666E-03	.4038	1.041E-02	.4851	7.782E-03	.3626
13.36	.258	815.61	6.636E-03	.3092	8.857E-03	.4127	1.066E-02	.4968	7.947E-03	.3703
13.78	.266	816.53	6.670E-03	.3108	8.908E-03	.4151	1.073E-02	.4999	7.991E-03	.3723
14.19	.274	821.34	6.850E-03	.3192	9.177E-03	.4276	1.108E-02	.5163	8.221E-03	.3831
14.60	.282	826.44	7.044E-03	.3282	9.468E-03	.4412	1.147E-02	.5342	8.470E-03	.3947
15.01	.290	826.53	7.047E-03	.3284	9.473E-03	.4414	1.147E-02	.5346	8.475E-03	.3949
15.41	.298	825.42	7.005E-03	.3264	9.410E-03	.4384	1.139E-02	.5306	8.420E-03	.3924
15.81	.306	826.51	7.047E-03	.3283	9.472E-03	.4414	1.147E-02	.5345	8.474E-03	.3949
16.21	.313	826.67	7.053E-03	.3286	9.482E-03	.4418	1.148E-02	.5351	8.482E-03	.3952

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
R1	8	TILE INSERT	0.175	.010	.015	1.307E 06	2.172E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.3	1297	39.50	40.02	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0393	1.747	3799	3.484E-05	7.618E-08	1.737E 06	2.146E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
22.797	2.469	21.411	1000

X (IN)	X/L	TW (DEG R)	HI(0)	HI(0)/HREF	HI(0.910)	HI(0.910)/HREF	HI(.85TO)	HI(.85TO)/HREF	HI .934TO)	HI .934TO)/HREF
16.61	.321	827.91	7.101E-03	.3309	9.554E-03	.4459	1.158E-02	.5396	8.544E-03	.3981
17.00	.329	831.08	7.223E-03	.3366	9.739E-03	.4538	1.183E-02	.5511	8.702E-03	.4055
17.39	.336	830.76	7.211E-03	.3360	9.721E-03	.4530	1.180E-02	.5499	8.686E-03	.4047
17.77	.344	831.43	7.237E-03	.3372	9.760E-03	.4548	1.185E-02	.5523	8.719E-03	.4063
18.16	.351	831.49	7.239E-03	.3373	9.764E-03	.4550	1.186E-02	.5526	8.723E-03	.4064
18.54	.358	830.29	7.193E-03	.3352	9.694E-03	.4517	1.177E-02	.5482	8.663E-03	.4036
18.92	.366	829.46	7.161E-03	.3337	9.645E-03	.4494	1.170E-02	.5452	8.621E-03	.4017
19.29	.373	831.43	7.237E-03	.3372	9.761E-03	.4548	1.185E-02	.5524	8.720E-03	.4063
19.66	.380	830.06	7.184E-03	.3348	9.680E-03	.4511	1.175E-02	.5474	8.651E-03	.4031
20.03	.387	829.69	7.170E-03	.3341	9.659E-03	.4501	1.172E-02	.5460	8.633E-03	.4023
20.40	.394	832.05	7.262E-03	.3384	9.798E-03	.4566	1.190E-02	.5547	8.752E-03	.4078
20.76	.401	833.97	7.337E-03	.3419	9.912E-03	.4619	1.206E-02	.5618	8.849E-03	.4123
21.12	.408	834.40	7.353E-03	.3426	9.938E-03	.4631	1.209E-02	.5634	8.870E-03	.4133
21.48	.415	835.43	7.394E-03	.3445	9.999E-03	.4659	1.217E-02	.5672	8.923E-03	.4158
21.84	.422	832.52	7.280E-03	.3392	9.826E-03	.4579	1.194E-02	.5565	8.776E-03	.4089
22.19	.429	831.67	7.247E-03	.3377	9.776E-03	.4555	1.187E-02	.5533	8.733E-03	.4069
22.54	.436	833.27	7.310E-03	.3406	9.871E-03	.4599	1.200E-02	.5592	8.814E-03	.4107
22.88	.442	835.00	7.377E-03	.3437	9.974E-03	.4647	1.214E-02	.5657	8.901E-03	.4148
23.23	.449	832.08	7.264E-03	.3385	9.801E-03	.4567	1.191E-02	.5548	8.754E-03	.4079
23.57	.456	831.79	7.253E-03	.3379	9.784E-03	.4559	1.189E-02	.5538	8.740E-03	.4072
23.91	.462	832.22	7.270E-03	.3387	9.810E-03	.4571	1.192E-02	.5554	8.761E-03	.4082
24.24	.469	829.38	7.159E-03	.3336	9.642E-03	.4493	1.170E-02	.5450	8.619E-03	.4016

NASA/HI 0H69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A1	8	TILE INSERT	0.175	.010	.015	1.307E 06	2.172E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.3	1297	39.50	40.02	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0393	1.747	3799	3.484E-05	7.618E-08	1.737E 06	2.146E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
22.757	2.469	21.411	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	827.46	7.086E-03	.3302	9.531E-03	.4441	1.155E-02	.5381	8.524E-03	.3972
24.90	.481	831.06	7.225E-03	.3366	9.741E-03	.4539	1.183E-02	.5512	8.703E-03	.4055
25.23	.488	829.02	7.140E-03	.3330	9.622E-03	.4483	1.167E-02	.5437	8.602E-03	.4008
25.55	.494	827.60	7.092E-03	.3304	9.540E-03	.4445	1.156E-02	.5386	8.532E-03	.3975
25.87	.500	818.54	6.748E-03	.3144	9.024E-03	.4205	1.088E-02	.5069	8.090E-03	.3770

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
R1	8	TILE INSERT	0.175	.010	.015	1.307E 06	2.172E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.3	1297	39.50	40.02	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	RREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0393	1.747	3799	3.484E-05	7.618E-08	1.737E 06	2.146E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
22.797	2.469	21.411	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.083	533.72	534.20	530.55	532.45	532.54	532.09	531.97	532.15	538.24	539.67
2.079	537.27	537.98	533.16	534.55	533.78	532.92	532.57	532.51	539.45	540.92
3.076	539.72	540.51	535.17	536.24	534.94	533.66	533.13	532.89	540.74	542.43
4.072	541.54	542.54	536.89	537.74	535.97	534.31	533.63	533.34	542.07	543.81
5.069	543.19	544.38	538.39	539.07	536.92	534.96	534.11	533.75	543.36	545.14
6.066	544.66	545.92	539.84	540.34	537.83	535.59	534.58	534.14	544.61	546.47
7.062	546.01	547.41	541.10	541.48	538.72	536.15	535.02	534.49	545.94	547.89
8.059	547.32	548.82	542.34	542.63	539.57	536.71	535.41	534.88	547.40	549.31
9.055	548.50	550.16	543.54	543.75	540.42	537.27	535.85	535.23	548.73	550.68
10.052	549.81	551.42	544.75	544.80	541.22	537.83	536.27	535.64	549.98	551.97
11.048	551.01	552.64	545.89	545.83	542.04	538.39	536.68	536.00	551.26	553.16
12.045	552.15	553.81	547.00	546.83	542.84	538.95	537.06	536.35	552.54	554.49
13.042	553.25	554.94	548.06	547.82	543.63	539.48	537.51	536.68	553.96	555.77
14.038	554.33	556.05	549.08	548.76	544.42	540.04	537.92	537.06	555.24	557.27
15.035	555.38	557.07	550.10	549.69	545.21	540.60	538.33	537.45	556.56	558.42
16.031	556.46	558.11	551.07	550.60	545.95	541.16	538.74	537.83	557.67	559.52
17.028	557.47	559.07	552.00	551.48	546.71	541.72	539.16	538.18	558.95	560.84
18.024	558.49	560.05	552.90	552.35	547.44	542.25	539.60	538.54	560.23	562.12
19.021	559.47	560.98	553.81	553.20	548.17	542.81	540.04	538.89	561.59	563.53
20.018	560.40	561.88	554.65	554.04	548.90	543.37	540.45	539.30	562.78	564.63
21.014	561.30	562.77	555.52	554.86	549.61	543.92	540.90	539.69	563.88	565.82

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A1	8	TILE INSERT	0.175	.010	.015	1.307E 06	2.172E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.3	1297	39.50	40.02	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	RREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0393	1.747	3799	3.484E-05	7.618E-08	1.737E 06	2.146E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
22.797	2.469	21.411	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.394	561.65	563.09	555.84	555.18	549.90	544.13	541.07	539.81	564.36	566.30
22.011	562.08	563.64	556.34	555.67	550.34	544.48	541.34	540.04	565.02	566.96
23.007	562.80	564.48	557.18	556.46	551.01	545.04	541.78	540.39	566.39	568.32
24.004	563.67	565.35	557.97	557.24	551.71	545.57	542.22	540.78	567.79	569.64
25.000	564.51	566.12	558.75	557.99	552.41	546.12	542.66	541.19	568.85	570.78
25.997	565.37	566.93	559.56	558.75	553.08	546.68	543.13	541.63	569.94	571.87
26.994	566.21	567.71	560.37	559.50	553.78	547.24	543.57	542.01	571.08	573.10

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A1	A	TILE INSERT	0.175	.010	.015	1.307E 06	2.172E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.3	1297	39.50	40.02	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0393	1.747	3799	3.484E-05	7.618E-08	1.737E 06	2.146E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
22.797	2.469	21.411	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.667	1
10.724	2
22.066	3

NASA/RI 0H69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
92	8	TILE INSERT	0.175	.010	.015	1.329E 06	2.208E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	378.1	1291	29.65	30.00	30.00	.35	30.00	0

T - INF (DEG R)	P - INF (PSIA)	U - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0397	1.765	3790	3.535E-05	7.584E-08	1.767E 06	2.155E-02	77

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
30.573	2.455	29.195	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
10.33	.200	638.32	1.422E-03	.0660	1.772E-03	.0822	2.022E-03	.0938	1.720E-03	.0798
10.71	.207	664.69	1.900E-03	.0882	2.394E-03	.1111	2.751E-03	.1276	2.319E-03	.1076
11.10	.214	688.99	2.397E-03	.1112	3.051E-03	.1416	3.534E-03	.1640	2.951E-03	.1369
11.48	.222	708.82	2.830E-03	.1313	3.636E-03	.1687	4.240E-03	.1967	3.512E-03	.1629
11.85	.229	727.03	3.250E-03	.1508	4.215E-03	.1956	4.950E-03	.2297	4.065E-03	.1886
12.23	.236	735.71	3.458E-03	.1605	4.506E-03	.2091	5.311E-03	.2464	4.343E-03	.2015
12.60	.244	746.82	3.734E-03	.1732	4.896E-03	.2271	5.797E-03	.2690	4.713E-03	.2187
12.98	.251	757.87	4.018E-03	.1864	5.302E-03	.2460	6.311E-03	.2928	5.100E-03	.2366
13.35	.259	766.62	4.251E-03	.1972	5.640E-03	.2617	6.741E-03	.3127	5.420E-03	.2515
13.72	.265	773.42	4.437E-03	.2059	5.912E-03	.2743	7.090E-03	.3290	5.677E-03	.2634
14.08	.272	781.08	4.653E-03	.2159	6.230E-03	.2891	7.502E-03	.3481	5.979E-03	.2774
14.45	.279	790.38	4.923E-03	.2284	6.634E-03	.3078	8.029E-03	.3725	6.360E-03	.2951
14.81	.286	795.11	5.065E-03	.2350	6.848E-03	.3177	8.311E-03	.3856	6.561E-03	.3044
15.17	.293	796.31	5.101E-03	.2367	6.903E-03	.3203	8.383E-03	.3890	6.613E-03	.3068
15.53	.300	797.73	5.145E-03	.2387	6.969E-03	.3233	8.471E-03	.3930	6.675E-03	.3097
15.89	.307	798.59	5.171E-03	.2399	7.009E-03	.3252	8.524E-03	.3955	6.713E-03	.3115
16.25	.314	799.18	5.189E-03	.2408	7.037E-03	.3265	8.561E-03	.3972	6.739E-03	.3127
16.60	.321	800.62	5.234E-03	.2428	7.105E-03	.3296	8.651E-03	.4014	6.803E-03	.3156
16.96	.328	805.71	5.394E-03	.2503	7.349E-03	.3410	8.976E-03	.4165	7.033E-03	.3263
17.31	.335	808.06	5.469E-03	.2537	7.464E-03	.3463	9.130E-03	.4236	7.141E-03	.3313
17.66	.341	808.86	5.494E-03	.2549	7.504E-03	.3482	9.183E-03	.4261	7.178E-03	.3330

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V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
92	8	TILE INSERT	0.175	.010	.015	1.329E 06	2.208E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	378.1	1291	29.65	30.00	30.00	.35	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0397	1.765	3790	3.535E-05	7.584E-08	1.767E 06	2.155E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
30.573	2.455	29.195	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
18.01	.348	809.96	5.530E-03	.2566	7.559E-03	.3507	9.257E-03	.4295	7.229E-03	.3354
18.35	.355	810.00	5.531E-03	.2566	7.561E-03	.3508	9.260E-03	.4296	7.231E-03	.3355
18.70	.361	808.55	5.485E-03	.2545	7.489E-03	.3475	9.163E-03	.4251	7.164E-03	.3324
19.04	.368	809.42	5.513E-03	.2558	7.533E-03	.3495	9.222E-03	.4279	7.205E-03	.3343
19.38	.375	811.72	5.586E-03	.2592	7.646E-03	.3547	9.374E-03	.4349	7.311E-03	.3392
19.72	.381	810.74	5.555E-03	.2577	7.598E-03	.3525	9.309E-03	.4319	7.266E-03	.3371
20.06	.388	809.35	5.511E-03	.2557	7.529E-03	.3493	9.217E-03	.4276	7.202E-03	.3341
20.39	.394	811.71	5.586E-03	.2592	7.646E-03	.3547	9.374E-03	.4349	7.311E-03	.3392
20.73	.401	813.65	5.648E-03	.2621	7.742E-03	.3592	9.504E-03	.4410	7.402E-03	.3434
21.06	.407	814.67	5.681E-03	.2636	7.794E-03	.3616	9.574E-03	.4442	7.450E-03	.3456
21.39	.413	815.83	5.718E-03	.2653	7.852E-03	.3643	9.652E-03	.4478	7.504E-03	.3482
21.72	.420	815.87	5.720E-03	.2654	7.854E-03	.3644	9.656E-03	.4480	7.506E-03	.3483
22.05	.426	813.30	5.637E-03	.2615	7.725E-03	.3584	9.481E-03	.4399	7.385E-03	.3427
22.37	.432	812.45	5.610E-03	.2603	7.683E-03	.3565	9.424E-03	.4372	7.346E-03	.3408
22.69	.439	814.15	5.664E-03	.2628	7.768E-03	.3604	9.539E-03	.4426	7.425E-03	.3445
23.02	.445	815.39	5.704E-03	.2646	7.829E-03	.3633	9.622E-03	.4464	7.483E-03	.3472
23.34	.451	813.49	5.643E-03	.2618	7.735E-03	.3589	9.494E-03	.4405	7.395E-03	.3431
23.65	.457	813.16	5.633E-03	.2613	7.718E-03	.3581	9.472E-03	.4395	7.379E-03	.3424
23.97	.463	813.46	5.643E-03	.2618	7.733E-03	.3588	9.492E-03	.4404	7.393E-03	.3430
24.29	.469	811.69	5.586E-03	.2592	7.646E-03	.3547	9.374E-03	.4349	7.311E-03	.3392
24.60	.475	809.23	5.508E-03	.2555	7.524E-03	.3491	9.211E-03	.4273	7.197E-03	.3339
24.91	.482	809.86	5.528E-03	.2565	7.556E-03	.3506	9.252E-03	.4293	7.226E-03	.3353

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
R2	8	TILE INSERT	0.175	.010	.015	1.329E 06	2.208E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	378.1	1291	29.65	30.00	30.00	.35	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0397	1.765	3790	3.535E-05	7.584E-08	1.767E 06	2.155E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
30.573	2.455	29.195	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
25.22	.487	808.02	5.469E-03	.2537	7.464E-03	.3463	9.130E-03	.4236	7.141E-03	.3313
25.53	.493	804.62	5.361E-03	.2487	7.298E-03	.3386	8.908E-03	.4133	6.985E-03	.3241
25.83	.499	801.64	5.236E-03	.2429	7.108E-03	.3298	8.654E-03	.4015	6.806E-03	.3158
26.14	.505	758.22	4.029E-03	.1869	5.318E-03	.2467	6.330E-03	.2937	5.115E-03	.2373

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
P2	8	TILE INSERT	0.175	.010	.015	1.329E 06	2.208E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	378.1	1291	29.65	30.00	30.00	.35	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0397	1.765	3790	3.535E-05	7.584E-08	1.767E 06	2.155E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
30.573	2.455	29.195	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.077	520.38	519.61	517.21	517.42	517.93	518.14	518.68	519.16	537.26	537.71
2.073	523.88	523.40	519.61	519.25	518.77	518.80	519.10	519.43	537.53	537.97
3.070	526.39	525.97	521.49	520.80	519.67	519.37	519.52	519.69	537.88	538.24
4.066	528.44	528.02	523.05	522.18	520.56	519.87	519.87	519.99	538.20	538.64
5.063	530.25	529.84	524.51	523.46	521.37	520.35	520.23	520.29	538.51	539.04
6.060	531.91	531.44	525.88	524.66	522.21	520.86	520.56	520.59	538.73	539.18
7.056	533.43	532.95	527.16	525.79	522.99	521.31	520.92	520.89	538.91	539.53
8.053	534.79	534.31	528.29	526.86	523.76	521.79	521.25	521.13	539.27	539.85
9.049	536.09	535.59	529.42	527.90	524.51	522.24	521.55	521.40	539.67	540.25
10.046	537.30	536.80	530.46	528.89	525.25	522.69	521.88	521.67	540.07	540.65
11.042	538.45	537.95	531.47	529.84	526.00	523.16	522.21	521.94	540.47	541.09
12.039	539.51	539.04	532.42	530.79	526.71	523.64	522.54	522.24	540.56	541.27
13.036	540.54	540.04	533.37	531.68	527.43	524.12	522.87	522.51	540.83	541.49
14.032	541.54	541.04	534.23	532.54	528.14	524.57	523.19	522.75	541.23	541.85
15.029	542.48	541.98	535.14	533.37	528.83	525.05	523.52	523.02	541.63	542.25
16.025	543.39	542.90	535.97	534.17	529.48	525.52	523.85	523.28	541.94	542.56
17.022	544.28	543.81	536.77	534.96	530.13	525.97	524.18	523.58	542.21	542.87
18.018	545.16	544.63	537.54	535.73	530.82	526.48	524.54	523.88	542.38	543.05
19.015	545.95	545.45	538.30	536.50	531.44	526.95	524.90	524.15	542.78	543.45
20.012	546.77	546.27	539.04	537.21	532.06	527.40	525.22	524.45	543.23	543.85
21.008	547.53	547.03	539.75	537.92	532.71	527.87	525.61	524.75	543.58	544.30

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
R2	8	TILE INSERT	0.175	.010	.015	1.329E 06	2.208E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	378.1	1291	29.65	30.00	30.00	.35	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0397	1.765	3790	3.535E-05	7.584E-08	1.767E 06	2.155E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
30.573	2.455	29.195	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.005	548.29	547.79	540.42	538.63	533.34	528.35	525.94	525.05	543.85	544.56
23.001	549.05	548.52	541.16	539.30	533.96	528.83	526.33	525.34	544.07	544.74
23.998	549.78	549.23	541.87	539.98	534.58	529.33	526.68	525.67	544.43	545.10
24.994	550.45	549.93	542.57	540.66	535.14	529.78	527.04	525.94	544.78	545.50
25.991	551.15	550.63	543.25	541.31	535.73	530.22	527.43	526.24	545.23	546.03
26.988	551.83	551.30	543.95	541.95	536.32	530.70	527.79	526.59	545.58	546.25
27.984	552.50	551.97	544.63	542.60	536.94	531.20	528.17	526.92	545.76	546.52
28.981	553.14	552.64	545.27	543.25	537.51	531.68	528.56	527.25	546.03	546.83
29.177	553.28	552.79	545.39	543.37	537.62	531.77	528.62	527.28	546.21	546.92
29.977	553.81	553.31	545.95	543.86	538.10	532.12	528.95	527.55	546.47	547.18
30.974	554.45	553.95	546.59	544.48	538.66	532.60	529.30	527.85	546.92	547.76
31.970	555.12	554.59	547.27	545.10	539.25	533.07	529.72	528.20	547.27	548.02
32.967	555.73	555.18	547.79	545.68	540.04	533.51	530.07	528.56	547.49	548.38
33.964	556.37	555.87	548.55	546.30	540.42	534.05	530.49	528.92	547.71	548.65

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
R2	8	TILE INSERT	0.175	.010	.015	1.329E 06	2.208E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	378.1	1291	29.65	30.00	30.00	.35	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0397	1.765	3790	3.535E-05	7.584E-08	1.767E 06	2.155E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
30.573	2.455	29.195	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.482	1
11.033	2
24.557	3

NASA/RI OH69
V41H-E9A

AEDC (AHO.INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
A3	B	TILE INSERT	0.175	.010	.015	1.136E 06	1.887E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.1	1288	29.73	30.02	30.00	.27	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0340	1.507	3786	3.025E-05	7.587E-08	1.510E 06	1.991E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.376	2.455	35.997	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
10.33	.200	624.82	1.130E-03	.0568	1.403E-03	.0705	1.595E-03	.0801	1.362E-03	.0684
10.71	.207	634.70	1.341E-03	.0673	1.672E-03	.0840	1.908E-03	.0958	1.622E-03	.0815
11.10	.214	643.99	1.424E-03	.0715	1.779E-03	.0894	2.033E-03	.1021	1.726E-03	.0867
11.48	.222	655.07	1.604E-03	.0805	2.013E-03	.1011	2.308E-03	.1159	1.951E-03	.0980
11.85	.229	668.25	1.834E-03	.0921	2.315E-03	.1163	2.664E-03	.1338	2.242E-03	.1126
12.23	.236	678.70	2.027E-03	.1018	2.570E-03	.1291	2.967E-03	.1490	2.487E-03	.1249
12.60	.244	691.57	2.253E-03	.1131	2.871E-03	.1442	3.329E-03	.1672	2.776E-03	.1394
12.98	.251	697.78	2.394E-03	.1202	3.062E-03	.1538	3.558E-03	.1787	2.959E-03	.1486
13.35	.258	715.25	2.749E-03	.1380	3.546E-03	.1781	4.147E-03	.2083	3.422E-03	.1719
13.72	.265	725.31	2.961E-03	.1487	3.840E-03	.1929	4.509E-03	.2265	3.703E-03	.1860
14.08	.272	736.62	3.208E-03	.1611	4.186E-03	.2102	4.938E-03	.2480	4.032E-03	.2025
14.45	.279	748.46	3.476E-03	.1746	4.566E-03	.2293	5.415E-03	.2719	4.394E-03	.2207
14.81	.286	758.35	3.708E-03	.1863	4.899E-03	.2461	5.837E-03	.2931	4.711E-03	.2366
15.17	.293	765.11	3.872E-03	.1945	5.137E-03	.2580	6.139E-03	.3083	4.936E-03	.2479
15.53	.300	767.66	3.935E-03	.1976	5.228E-03	.2626	6.257E-03	.3142	5.022E-03	.2522
15.89	.307	773.14	4.071E-03	.2045	5.429E-03	.2727	6.515E-03	.3272	5.212E-03	.2618
16.25	.314	777.01	4.170E-03	.2094	5.574E-03	.2799	6.703E-03	.3366	5.349E-03	.2687
16.60	.321	781.79	4.293E-03	.2156	5.757E-03	.2891	6.941E-03	.3486	5.522E-03	.2773
16.96	.328	789.96	4.509E-03	.2265	6.082E-03	.3054	7.365E-03	.3699	5.828E-03	.2927
17.31	.335	793.68	4.611E-03	.2316	6.234E-03	.3131	7.567E-03	.3800	5.972E-03	.2999
17.66	.341	795.85	4.670E-03	.2346	6.325E-03	.3177	7.686E-03	.3860	6.057E-03	.3042

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V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
93	8	TILE INSERT	0.175	.010	.015	1.136E 06	1.887E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.1	1288	29.73	30.02	30.00	.27	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0340	1.507	3786	3.025E-05	7.587E-08	1.510E 06	1.991E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.376	2.455	35.997	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
18.01	.348	797.55	4.718E-03	.2369	6.397E-03	.3213	7.782E-03	.3908	6.125E-03	.3076
18.35	.355	798.15	4.734E-03	.2378	6.422E-03	.3226	7.816E-03	.3925	6.149E-03	.3088
18.70	.361	797.80	4.724E-03	.2373	6.407E-03	.3218	7.795E-03	.3915	6.135E-03	.3081
19.04	.368	799.49	4.772E-03	.2397	6.479E-03	.3254	7.891E-03	.3963	6.203E-03	.3115
19.38	.375	801.99	4.842E-03	.2432	6.587E-03	.3308	8.035E-03	.4035	6.304E-03	.3166
19.72	.381	801.14	4.818E-03	.2420	6.551E-03	.3290	7.986E-03	.4011	6.270E-03	.3149
20.06	.388	800.14	4.790E-03	.2406	6.508E-03	.3268	7.929E-03	.3982	6.229E-03	.3129
20.39	.394	802.25	4.850E-03	.2436	6.599E-03	.3314	8.051E-03	.4043	6.315E-03	.3172
20.73	.401	804.75	4.922E-03	.2472	6.709E-03	.3370	8.198E-03	.4117	6.418E-03	.3224
21.06	.407	806.44	4.971E-03	.2496	6.784E-03	.3407	8.298E-03	.4168	6.489E-03	.3259
21.39	.413	807.62	5.005E-03	.2514	6.837E-03	.3434	8.369E-03	.4203	6.539E-03	.3284
21.72	.420	807.82	5.011E-03	.2517	6.846E-03	.3438	8.382E-03	.4209	6.547E-03	.3288
22.05	.426	805.52	4.944E-03	.2483	6.744E-03	.3387	8.244E-03	.4140	6.451E-03	.3240
22.37	.432	804.79	4.923E-03	.2472	6.711E-03	.3370	8.200E-03	.4118	6.420E-03	.3224
22.69	.439	806.83	4.981E-03	.2502	6.801E-03	.3415	8.320E-03	.4179	6.504E-03	.3267
23.02	.445	807.93	5.013E-03	.2518	6.850E-03	.3440	8.386E-03	.4212	6.551E-03	.3290
23.34	.451	806.25	4.965E-03	.2494	6.776E-03	.3403	8.287E-03	.4162	6.481E-03	.3255
23.65	.457	805.80	4.952E-03	.2487	6.756E-03	.3393	8.260E-03	.4149	6.462E-03	.3246
23.97	.463	805.88	4.955E-03	.2488	6.760E-03	.3395	8.265E-03	.4151	6.466E-03	.3247
24.29	.469	804.67	4.920E-03	.2471	6.706E-03	.3368	8.193E-03	.4115	6.415E-03	.3222
24.60	.475	802.16	4.848E-03	.2435	6.596E-03	.3313	8.046E-03	.4041	6.312E-03	.3170
24.91	.482	802.99	4.872E-03	.2447	6.632E-03	.3331	8.095E-03	.4066	6.346E-03	.3187

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A3	8	TILE INSERT	0.175	.010	.015	1.136E 06	1.887E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.1	1288	29.73	30.02	30.00	.27	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0340	1.507	3786	3.025E-05	7.587E-08	1.510E 06	1.991E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
37.376	2.455	35.997	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
25.22	.487	803.69	4.892E-03	.2457	6.663E-03	.3346	8.136E-03	.4086	6.375E-03	.3202
25.53	.493	801.40	4.827E-03	.2424	6.563E-03	.3296	8.003E-03	.4019	6.281E-03	.3155
25.83	.499	798.81	4.754E-03	.2387	6.451E-03	.3240	7.854E-03	.3945	6.176E-03	.3102
26.14	.505	771.38	4.028E-03	.2023	5.365E-03	.2695	6.433E-03	.3231	5.152E-03	.2587

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
B3	B	TILE INSERT	0.175	.010	.015	1.136E 06	1.887E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.1	1288	29.73	30.02	30.00	.27	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0340	1.507	3786	3.025E-05	7.587E-08	1.510E 06	1.991E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.376	2.455	35.997	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.077	529.30	529.69	526.30	527.76	527.76	527.61	527.46	527.52	534.04	534.63
2.073	532.74	533.16	528.77	529.51	528.83	528.23	527.90	527.82	534.45	534.80
3.070	535.23	535.56	530.76	530.99	529.75	528.77	528.32	528.11	534.76	535.16
4.066	537.21	537.54	532.42	532.30	530.55	529.27	528.68	528.41	534.94	535.43
5.063	538.89	539.22	533.84	533.48	531.35	529.78	529.00	528.71	535.12	535.70
6.060	540.39	540.72	535.05	534.61	532.12	530.22	529.36	528.98	535.38	535.92
7.056	541.72	542.10	536.12	535.70	532.86	530.70	529.66	529.24	535.74	536.32
8.053	542.95	543.39	537.24	536.74	533.60	531.11	529.99	529.51	536.10	536.68
9.049	544.10	544.66	538.36	537.71	534.34	531.56	530.31	529.78	536.37	536.95
10.046	545.21	545.80	539.45	538.66	535.05	532.03	530.61	530.07	536.59	537.17
11.042	546.36	546.94	540.51	539.57	535.76	532.48	530.94	530.34	536.77	537.53
12.039	547.41	548.03	541.48	540.48	536.47	532.92	531.26	530.61	537.17	537.84
13.036	548.44	549.05	542.45	541.34	537.15	533.34	531.59	530.85	537.57	538.20
14.032	549.43	550.07	543.42	542.19	537.83	533.78	531.91	531.11	537.93	538.55
15.029	550.51	551.01	544.39	543.01	538.51	534.25	532.24	531.41	538.11	538.82
16.025	551.50	551.97	545.30	543.80	539.16	534.73	532.54	531.71	538.42	539.09
17.022	552.50	552.87	546.18	544.63	539.81	535.17	532.89	531.94	538.69	539.40
18.018	553.43	553.72	547.06	545.39	540.42	535.64	533.22	532.21	539.13	539.85
19.015	554.33	554.59	547.88	546.16	541.10	536.09	533.57	532.51	539.53	540.20
20.012	555.20	555.41	548.73	546.91	541.72	536.53	533.93	532.80	539.71	540.47
21.008	556.02	556.22	549.55	547.65	542.37	537.03	534.28	533.13	540.02	540.69

NASA/RI 0H69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
R3	8	TILE INSERT	0.175	.010	.015	1.136E 06	1.887E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.1	1288	29.73	30.02	30.00	.27	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0340	1.507	3786	3.025E-05	7.587E-08	1.510E 06	1.991E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.376	2.455	35.997	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.005	556.86	557.01	550.34	548.38	542.98	537.51	534.61	533.43	540.34	541.00
23.001	557.62	557.79	551.12	549.08	543.60	537.95	534.96	533.66	540.74	541.36
23.998	558.37	558.55	551.91	549.78	544.19	538.42	535.32	533.96	541.14	541.81
24.994	559.10	559.30	552.70	550.45	544.80	538.86	535.67	534.28	541.40	542.03
25.991	559.82	560.08	553.43	551.12	545.39	539.33	536.03	534.61	541.63	542.29
26.988	560.55	560.72	554.16	551.80	545.98	539.81	536.41	534.94	541.89	542.52
27.984	561.21	561.39	554.83	552.47	546.56	540.28	536.80	535.20	542.34	542.92
28.981	561.91	562.08	555.50	553.08	547.12	540.72	537.15	535.53	542.74	543.36
29.977	562.57	562.77	556.16	553.72	547.70	541.19	537.54	535.85	543.01	543.67
30.974	563.21	563.41	556.86	554.36	548.26	541.66	537.89	536.21	543.18	543.94
31.970	563.87	564.08	557.50	554.97	548.82	542.13	538.24	536.53	543.45	544.16
32.967	564.51	564.71	558.14	555.56	549.37	542.57	538.66	536.83	543.85	544.56
33.964	565.14	565.32	558.78	556.16	549.93	543.01	539.04	537.15	544.30	544.92
34.960	565.72	565.95	559.39	556.75	550.45	543.48	539.39	537.51	544.61	545.32
35.957	566.27	566.56	560.02	557.33	550.98	543.92	539.78	537.86	544.78	545.50
35.980	566.27	566.56	560.02	557.33	551.01	543.95	539.78	537.83	544.87	545.54
36.953	566.85	567.16	560.60	557.91	551.53	544.39	540.16	538.18	545.01	545.81
37.950	567.42	567.77	561.21	558.49	552.03	544.86	540.54	538.51	545.36	546.03
38.946	568.03	568.34	561.79	559.01	552.55	545.27	540.95	538.83	545.76	546.47
39.943	568.60	568.92	562.37	559.59	553.02	545.74	541.31	539.19	546.16	546.87

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
R3	A	TILE INSERT	0.175	.010	.015	1.136E 06	1.887E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.1	1288	29.73	30.02	30.00	.27	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0340	1.507	3786	3.025E-05	7.587E-08	1.510E 06	1.991E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.376	2.455	35.997	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.356	1
11.916	2
37.031	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
94	8	TILE INSERT	0.175	.010	.015	1.120E 06	1.861E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.7	1297	39.56	40.00	30.00	-9.56	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.501	3799	2.992E-05	7.637E-08	1.488E 06	1.989E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.849	2.450	26.473	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
8.15	.158	576.18	5.244E-04	.0264	6.395E-04	.0322	7.183E-04	.0361	5.951E-04	.0299
8.60	.166	594.42	7.293E-04	.0367	8.933E-04	.0449	1.006E-03	.0506	8.298E-04	.0417
9.05	.175	622.41	1.233E-03	.0620	1.527E-03	.0768	1.733E-03	.0872	1.413E-03	.0710
9.49	.183	727.80	3.431E-03	.1725	4.444E-03	.2234	5.213E-03	.2621	4.038E-03	.2030
9.93	.192	674.64	2.299E-03	.1156	2.910E-03	.1463	3.355E-03	.1687	2.669E-03	.1342
10.37	.200	714.32	3.104E-03	.1561	3.993E-03	.2008	4.660E-03	.2343	3.638E-03	.1829
10.81	.209	738.92	3.711E-03	.1866	4.834E-03	.2430	5.697E-03	.2864	4.383E-03	.2203
11.24	.217	751.70	4.044E-03	.2033	5.307E-03	.2668	6.288E-03	.3161	4.797E-03	.2412
11.67	.226	765.37	4.417E-03	.2221	5.843E-03	.2937	6.967E-03	.3503	5.264E-03	.2647
12.10	.234	773.82	4.802E-03	.2414	6.405E-03	.3220	7.688E-03	.3865	5.751E-03	.2891
12.52	.242	789.12	5.111E-03	.2570	6.864E-03	.3451	8.285E-03	.4166	6.147E-03	.3090
12.94	.250	797.55	5.374E-03	.2702	7.259E-03	.3650	8.803E-03	.4426	6.485E-03	.3260
13.36	.258	803.83	5.576E-03	.2803	7.566E-03	.3804	9.209E-03	.4630	6.746E-03	.3392
13.78	.266	805.16	5.620E-03	.2925	7.632E-03	.3837	9.298E-03	.4675	6.803E-03	.3420
14.19	.274	811.15	5.818E-03	.2925	7.937E-03	.3990	9.704E-03	.4879	7.061E-03	.3550
14.60	.282	817.41	6.026E-03	.3030	8.260E-03	.4153	1.014E-02	.5098	7.334E-03	.3687
15.01	.290	819.40	6.093E-03	.3063	8.365E-03	.4205	1.028E-02	.5169	7.429E-03	.3732
15.41	.298	818.12	6.050E-03	.3042	8.298E-03	.4172	1.019E-02	.5123	7.366E-03	.3703
15.81	.306	818.99	6.079E-03	.3056	8.343E-03	.4195	1.025E-02	.5155	7.405E-03	.3723
16.21	.313	820.63	6.135E-03	.3084	8.430E-03	.4238	1.037E-02	.5214	7.478E-03	.3760
16.61	.321	821.59	6.167E-03	.3101	8.482E-03	.4264	1.044E-02	.5249	7.521E-03	.3781

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A4	8	TILE INSERT	0.175	.010	.015	1.120E 06	1.861E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.7	1297	39.56	40.00	30.00	-9.56	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.501	3799	2.992E-05	7.637E-08	1.488E 06	1.989E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.849	2.450	26.473	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.00	.329	825.05	6.285E-03	.3160	8.668E-03	.4358	1.069E-02	.5377	7.677E-03	.3860
17.39	.336	824.92	6.281E-03	.3158	8.661E-03	.4354	1.068E-02	.5372	7.671E-03	.3857
17.77	.344	825.12	6.288E-03	.3161	8.671E-03	.4360	1.070E-02	.5379	7.680E-03	.3861
18.16	.351	825.68	6.307E-03	.3171	8.702E-03	.4375	1.074E-02	.5401	7.706E-03	.3874
18.54	.358	824.70	6.274E-03	.3154	8.649E-03	.4348	1.067E-02	.5364	7.661E-03	.3852
18.92	.366	824.10	6.253E-03	.3144	8.617E-03	.4332	1.062E-02	.5342	7.635E-03	.3838
19.29	.373	826.46	6.334E-03	.3185	8.745E-03	.4397	1.080E-02	.5430	7.742E-03	.3892
19.66	.380	825.12	6.288E-03	.3162	8.672E-03	.4360	1.070E-02	.5380	7.681E-03	.3862
20.03	.387	824.20	6.257E-03	.3146	8.623E-03	.4335	1.063E-02	.5346	7.639E-03	.3841
20.40	.394	826.60	6.339E-03	.3187	8.753E-03	.4400	1.081E-02	.5435	7.748E-03	.3896
20.76	.401	829.19	6.428E-03	.3232	8.895E-03	.4472	1.101E-02	.5533	7.867E-03	.3955
21.12	.408	830.05	6.458E-03	.3247	8.942E-03	.4496	1.107E-02	.5566	7.907E-03	.3975
21.48	.415	831.05	6.493E-03	.3265	8.998E-03	.4524	1.115E-02	.5605	7.954E-03	.3999
21.84	.422	827.54	6.372E-03	.3203	8.804E-03	.4427	1.088E-02	.5471	7.792E-03	.3917
22.19	.429	826.64	6.341E-03	.3188	8.756E-03	.4402	1.081E-02	.5437	7.751E-03	.3897
22.54	.436	828.78	6.414E-03	.3225	8.872E-03	.4460	1.097E-02	.5517	7.848E-03	.3946
22.88	.442	830.61	6.478E-03	.3257	8.974E-03	.4512.	1.112E-02	.5589	7.934E-03	.3989
23.23	.449	828.35	6.400E-03	.3218	8.849E-03	.4449	1.094E-02	.5502	7.829E-03	.3936
23.57	.456	827.65	6.376E-03	.3206	8.811E-03	.4430	1.089E-02	.5475	7.797E-03	.3920
23.91	.462	828.71	6.413E-03	.3224	8.870E-03	.4459	1.097E-02	.5516	7.846E-03	.3945
24.24	.469	827.25	6.362E-03	.3199	8.790E-03	.4419	1.086E-02	.5461	7.779E-03	.3911
24.57	.475	824.78	6.276E-03	.3156	8.655E-03	.4351	1.068E-02	.5368	7.667E-03	.3855

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
94	8	TILE INSERT	0.175	.010	.015	1.120E 06	1.861E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.7	1297	39.56	40.00	30.00	-9.56	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.501	3799	2.992E-05	7.637E-08	1.488E 06	1.989E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
27.849	2.450	26.473	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.481	828.13	6.393E-03	.3214	8.838E-03	.4443	1.093E-02	.5494	7.820E-03	.3931
25.23	.488	827.18	6.360E-03	.3198	8.786E-03	.4417	1.086E-02	.5458	7.776E-03	.3910
25.55	.494	824.86	6.280E-03	.3158	8.660E-03	.4354	1.068E-02	.5371	7.671E-03	.3856
25.87	.500	818.75	6.073E-03	.3053	8.334E-03	.4190	1.024E-02	.5148	7.397E-03	.3719

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
84	8	TILE INSERT	0.175	.010	.015	1.120E 06	1.861E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.7	1297	39.56	40.00	30.00	-9.56	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.501	3799	2.992E-05	7.637E-08	1.488E 06	1.989E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.849	2.450	26.473	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.075	534.88	534.85	532.95	533.10	533.07	532.57	532.24	532.24	532.30	533.55
2.071	538.01	538.30	535.41	535.14	534.34	533.34	532.83	532.60	533.37	534.63
3.068	540.25	540.69	537.33	536.74	535.41	534.02	533.34	533.01	534.40	535.92
4.064	542.13	542.60	538.95	538.13	536.38	534.70	533.81	533.43	535.52	536.95
5.061	543.78	544.22	540.37	539.39	537.36	535.29	534.28	533.81	536.50	538.15
6.058	545.30	545.74	541.69	540.54	538.13	535.82	534.70	534.17	537.71	539.31
7.054	546.68	547.12	542.92	541.63	538.92	536.35	535.11	534.52	539.00	540.56
8.051	548.00	548.41	544.07	542.69	539.72	536.89	535.53	534.88	540.11	541.76
9.047	549.20	549.64	545.19	543.69	540.51	537.42	535.88	535.23	541.23	542.96
10.044	550.39	550.80	546.27	544.69	541.25	537.95	536.29	535.59	542.29	543.94
11.040	551.50	551.88	547.27	545.62	542.01	538.42	536.68	535.91	543.41	545.01
12.037	552.55	552.96	548.23	546.53	542.72	538.92	537.06	536.21	544.70	546.29
13.034	553.60	553.98	549.20	547.41	543.45	539.45	537.45	536.59	545.90	547.49
14.030	554.59	554.97	550.13	548.29	544.19	539.95	537.83	536.92	546.87	548.42
15.027	555.55	555.96	551.07	549.17	544.89	540.48	538.21	537.27	547.94	549.53
16.023	556.51	556.89	551.94	549.99	545.57	540.98	538.60	537.59	549.34	550.60
17.020	557.38	557.76	552.79	550.77	546.27	541.48	539.01	537.92	550.24	551.88
18.016	558.28	558.66	553.60	551.59	546.94	541.98	539.39	538.27	551.39	552.99
19.013	559.13	559.50	554.45	552.35	547.62	542.48	539.78	538.66	552.41	553.96
20.010	559.97	560.37	555.23	553.14	548.29	543.01	540.19	538.98	553.38	555.06
21.006	560.78	561.15	556.02	553.89	548.93	543.54	540.60	539.33	554.53	556.08

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A4	8	TILE INSERT	0.175	.010	.015	1.120E 06	1.861E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.7	1297	39.56	40.00	30.00	-9.56	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0378	1.501	3799	2.592E-05	7.637E-08	1.488E 06	1.989E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.849	2.450	26.473	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.003	561.59	561.96	556.77	554.62	549.61	544.01	540.98	539.66	555.73	557.36
22.999	562.37	562.77	557.56	555.35	550.25	544.54	541.42	540.01	556.74	558.37
23.996	563.15	563.50	558.31	556.08	550.89	545.07	541.84	540.42	557.76	559.39
24.992	563.90	564.28	559.04	556.77	551.53	545.57	542.25	540.78	558.73	560.40
25.989	564.62	565.03	559.76	557.44	552.15	546.06	542.66	541.13	559.83	561.46
26.455	564.94	565.37	560.08	557.79	552.44	546.33	542.84	541.28	560.36	561.99
26.986	565.35	565.72	560.43	558.14	552.76	546.56	543.07	541.45	561.02	562.60
27.982	566.07	566.47	561.13	558.81	553.37	547.09	543.48	541.87	561.99	563.70
28.979	566.79	567.13	561.82	559.47	553.98	547.59	543.92	542.25	563.04	564.63
29.975	567.48	567.83	562.51	560.14	554.56	548.11	544.33	542.60	564.06	565.60
30.972	568.14	568.52	563.15	560.78	555.18	548.61	544.77	542.98	565.11	566.74

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
84	8	TILE INSERT	0.175	.010	.015	1.120E 06	1.861E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	319.7	1297	39.56	40.00	30.00	-9.56	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.9	.0338	1.501	3799	2.592E-05	7.637E-08	1.488E 06	1.989E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.849	2.450	26.473	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.834	1
12.110	2
27.173	3

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A5	8	TILE INSERT	0.175	.010	.015	9.560E 05	1.588E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.8	1277	39.64	40.01	30.00	-9.64	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R*0.040FT)	INITIAL TEMP (DEG F)
93.6	.0284	1.255	3770	2.541E-05	7.539E-08	1.270E 06	1.814E-02	76

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.248	2.450	15.872	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	558.43	3.640E-04	.0201	4.427E-04	.0244	4.963E-04	.0274	4.123E-04	.0227
8.15	.158	571.83	5.995E-04	.0330	7.320E-04	.0404	8.230E-04	.0454	6.808E-04	.0375
8.60	.166	583.66	8.198E-04	.0452	1.005E-03	.0554	1.133E-03	.0624	9.331E-04	.0514
9.05	.175	598.85	1.119E-03	.0617	1.379E-03	.0760	1.559E-03	.0860	1.278E-03	.0704
9.49	.183	700.44	3.685E-03	.2032	4.733E-03	.2609	5.518E-03	.3042	4.315E-03	.2379
9.93	.192	673.42	2.893E-03	.1595	3.669E-03	.2023	4.237E-03	.2336	3.362E-03	.1853
10.37	.200	656.64	2.436E-03	.1343	3.068E-03	.1691	3.524E-03	.1943	2.819E-03	.1554
10.81	.209	668.32	2.751E-03	.1516	3.481E-03	.1919	4.013E-03	.2212	3.192E-03	.1760
11.24	.217	688.90	3.339E-03	.1841	4.265E-03	.2351	4.952E-03	.2730	3.897E-03	.2148
11.67	.226	699.65	3.662E-03	.2018	4.701E-03	.2592	5.479E-03	.3020	4.286E-03	.2363
12.10	.234	705.92	3.855E-03	.2125	4.964E-03	.2737	5.799E-03	.3197	4.521E-03	.2492
12.52	.242	715.77	4.165E-03	.2296	5.391E-03	.2972	6.322E-03	.3485	4.900E-03	.2701
12.94	.250	723.17	4.404E-03	.2428	5.723E-03	.3155	6.731E-03	.3711	5.193E-03	.2863
13.36	.258	730.97	4.663E-03	.2570	6.085E-03	.3355	7.181E-03	.3958	5.512E-03	.3039
13.78	.266	735.41	4.812E-03	.2653	6.296E-03	.3471	7.444E-03	.4104	5.698E-03	.3141
14.19	.274	740.20	4.976E-03	.2743	6.529E-03	.3599	7.736E-03	.4264	5.902E-03	.3253
14.60	.282	746.69	5.203E-03	.2868	6.852E-03	.3777	8.143E-03	.4489	6.184E-03	.3409
15.01	.290	750.62	5.342E-03	.2945	7.053E-03	.3888	8.397E-03	.4629	6.359E-03	.3506
15.41	.298	750.37	5.334E-03	.2940	7.040E-03	.3881	8.381E-03	.4620	6.348E-03	.3500
15.81	.306	751.39	5.370E-03	.2960	7.093E-03	.3910	8.448E-03	.4657	6.394E-03	.3525
16.21	.313	753.58	5.449E-03	.3004	7.206E-03	.3973	8.592E-03	.4737	6.493E-03	.3579

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A5	8	TILE INSERT	0.175	.010	.015	9.560E 05	1.588E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.8	1277	39.64	40.01	30.00	-9.64	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0284	1.255	3770	2.541E-05	7.539E-08	1.270E 06	1.814E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.248	2.450	15.872	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	754.25	5.473E-03	.3017	7.242E-03	.3992	8.637E-03	.4761	6.524E-03	.3596
17.00	.329	757.05	5.575E-03	.3073	7.389E-03	.4074	8.825E-03	.4865	6.652E-03	.3667
17.39	.336	758.30	5.621E-03	.3099	7.456E-03	.4110	8.910E-03	.4912	6.710E-03	.3699
17.77	.344	757.10	5.577E-03	.3075	7.392E-03	.4075	8.829E-03	.4867	6.655E-03	.3668
18.16	.351	757.89	5.606E-03	.3091	7.435E-03	.4099	8.883E-03	.4897	6.691E-03	.3689
18.54	.358	758.21	5.618E-03	.3097	7.452E-03	.4108	8.905E-03	.4909	6.706E-03	.3697
18.92	.366	757.18	5.581E-03	.3076	7.397E-03	.4078	8.835E-03	.4870	6.659E-03	.3671
19.29	.373	757.97	5.610E-03	.3092	7.439E-03	.4101	8.889E-03	.4900	6.696E-03	.3691
19.66	.380	758.59	5.633E-03	.3105	7.473E-03	.4119	8.931E-03	.4924	6.724E-03	.3707
20.03	.387	756.65	5.562E-03	.3066	7.369E-03	.4063	8.800E-03	.4851	6.635E-03	.3658
20.40	.394	757.96	5.610E-03	.3092	7.439E-03	.4101	8.889E-03	.4900	6.695E-03	.3691
20.76	.401	760.23	5.693E-03	.3139	7.561E-03	.4168	9.045E-03	.4986	6.801E-03	.3749
21.12	.408	761.92	5.756E-03	.3173	7.653E-03	.4219	9.162E-03	.5051	6.880E-03	.3793
21.48	.415	763.88	5.829E-03	.3214	7.760E-03	.4278	9.300E-03	.5127	6.973E-03	.3844
21.84	.422	762.41	5.774E-03	.3183	7.679E-03	.4233	9.196E-03	.5070	6.904E-03	.3806
22.19	.429	759.95	5.684E-03	.3133	7.547E-03	.4160	9.026E-03	.4976	6.789E-03	.3742
22.54	.436	760.07	5.688E-03	.3136	7.553E-03	.4164	9.034E-03	.4980	6.794E-03	.3745
22.88	.442	762.68	5.785E-03	.3189	7.695E-03	.4242	9.216E-03	.5080	6.917E-03	.3813
23.23	.449	762.01	5.760E-03	.3175	7.658E-03	.4222	9.169E-03	.5055	6.885E-03	.3796
23.57	.456	759.48	5.667E-03	.3124	7.522E-03	.4147	8.994E-03	.4958	6.767E-03	.3731
23.91	.462	760.40	5.701E-03	.3143	7.572E-03	.4174	9.058E-03	.4993	6.810E-03	.3754
24.24	.469	760.35	5.699E-03	.3142	7.569E-03	.4172	9.054E-03	.4991	6.808E-03	.3753

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
85	8	TILE INSERT	0.175	.010	.015	9.560E 05	1.588E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.8	1277	39.64	40.01	30.00	-9.64	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0284	1.255	3770	2.541E-05	7.539E-08	1.270E 06	1.814E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.248	2.450	15.872	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	757.68	5.601E-03	.3088	7.426E-03	.4094	8.872E-03	.4891	6.684E-03	.3685
24.90	.481	758.29	5.623E-03	.3100	7.459E-03	.4112	8.913E-03	.4914	6.712E-03	.3700
25.23	.488	760.09	5.690E-03	.3137	7.556E-03	.4165	9.037E-03	.4982	6.796E-03	.3747
25.55	.494	757.45	5.592E-03	.3083	7.414E-03	.4087	8.856E-03	.4882	6.674E-03	.3679
25.87	.500	754.56	5.487E-03	.3025	7.262E-03	.4003	8.662E-03	.4775	6.541E-03	.3606

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
95	8	TILE INSERT	0.175	.010	.015	9.560E 05	1.588E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.8	1277	39.64	40.01	30.00	-9.64	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0284	1.255	3770	2.541E-05	7.539E-08	1.270E 06	1.814E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.248	2.450	15.872	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.075	534.82	534.61	532.89	533.16	533.25	532.95	532.80	532.86	538.69	539.71
2.071	537.65	537.86	535.11	535.02	534.40	533.66	533.31	533.19	539.71	540.74
3.068	539.69	539.95	536.83	536.44	535.35	534.28	533.78	533.54	540.65	541.67
4.064	541.31	541.60	538.24	537.65	536.21	534.88	534.20	533.93	541.54	542.65
5.061	542.81	543.07	539.51	538.77	537.00	535.38	534.64	534.28	542.43	543.45
6.058	544.13	544.39	540.69	539.81	537.77	535.91	534.99	534.61	543.27	544.43
7.054	545.39	545.62	541.81	540.78	538.48	536.38	535.35	534.91	544.30	545.45
8.051	546.56	546.77	542.81	541.69	539.19	536.83	535.73	535.20	545.32	546.47
9.047	547.68	547.88	543.84	542.60	539.86	537.30	536.06	535.53	546.25	547.40
10.044	548.73	548.90	544.77	543.48	540.54	537.77	536.41	535.85	547.14	548.20
11.040	549.72	549.90	545.71	544.30	541.22	538.21	536.74	536.12	547.98	549.09
12.037	550.66	550.86	546.59	545.13	541.87	538.66	537.09	536.41	549.00	550.15
13.034	551.62	551.74	547.44	545.92	542.51	539.10	537.42	536.71	549.98	551.08
14.030	552.50	552.64	548.26	546.68	543.16	539.54	537.77	537.00	550.91	552.01
15.027	553.37	553.52	549.08	547.47	543.78	540.01	538.13	537.33	551.83	552.90
15.854	554.07	554.19	549.72	548.09	544.28	540.39	538.39	537.56	552.41	553.52
16.023	554.22	554.33	549.87	548.20	544.42	540.48	538.45	537.62	552.54	553.69
17.020	555.06	555.15	550.66	548.93	545.01	540.92	538.80	537.92	553.47	554.62
18.016	555.84	555.93	551.42	549.64	545.62	541.37	539.16	538.18	554.49	555.59
19.013	556.63	556.75	552.15	550.34	546.24	541.81	539.51	538.48	555.46	556.48
20.010	557.38	557.47	552.87	551.04	546.86	542.28	539.84	538.83	556.21	557.40

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
R5	8	TILE INSERT	0.175	.010	.015	9.560E 05	1.588E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.8	1277	39.64	40.01	30.00	-9.64	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0284	1.255	3770	2.541E-05	7.539E-08	1.270E 06	1.814E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.248	2.450	15.872	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A5	8	TILE INSERT	0.175	.010	.015	9.560E 05	1.588E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.8	1277	39.64	40.01	30.00	-9.64	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0284	1.255	3770	2.541E-05	7.539E-08	1.270E 06	1.814E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.248	2.450	15.872	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.700	1
9.536	2
14.778	3

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/BI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
B6	8	TILE INSERT	0.175	.010	.015	9.564E 05	1.589E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.8	1277	29.75	29.99	30.00	.25	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0284	1.255	3769	2.542E-05	7.537E-08	1.271E 06	1.814E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
37.088	2.455	35.709	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	593.34	7.075E-04	.0390	8.700E-04	.0480	9.829E-04	.0542	8.459E-04	.0466
10.33	.200	619.80	1.079E-03	.0595	1.340E-03	.0738	1.523E-03	.0840	1.301E-03	.0717
10.71	.207	623.89	1.140E-03	.0629	1.417E-03	.0781	1.613E-03	.0889	1.376E-03	.0758
11.10	.214	622.41	1.118E-03	.0616	1.389E-03	.0766	1.581E-03	.0871	1.349E-03	.0743
11.48	.222	622.92	1.126E-03	.0621	1.399E-03	.0771	1.592E-03	.0878	1.358E-03	.0749
11.85	.229	624.54	1.150E-03	.0634	1.430E-03	.0788	1.628E-03	.0897	1.388E-03	.0765
12.23	.236	626.28	1.176E-03	.0648	1.463E-03	.0807	1.667E-03	.0919	1.420E-03	.0783
12.60	.244	627.28	1.192E-03	.0657	1.483E-03	.0818	1.690E-03	.0931	1.439E-03	.0793
12.98	.251	628.16	1.205E-03	.0664	1.500E-03	.0827	1.710E-03	.0943	1.456E-03	.0803
13.35	.258	629.04	1.218E-03	.0672	1.517E-03	.0837	1.730E-03	.0954	1.473E-03	.0812
13.72	.265	629.65	1.228E-03	.0677	1.530E-03	.0843	1.744E-03	.0961	1.484E-03	.0818
14.08	.272	631.16	1.251E-03	.0690	1.559E-03	.0860	1.778E-03	.0980	1.513E-03	.0834
14.45	.279	634.47	1.302E-03	.0718	1.626E-03	.0896	1.856E-03	.1023	1.577E-03	.0869
14.81	.286	637.73	1.353E-03	.0746	1.691E-03	.0932	1.932E-03	.1065	1.640E-03	.0904
15.17	.293	639.69	1.385E-03	.0764	1.732E-03	.0955	1.980E-03	.1092	1.680E-03	.0926
15.53	.300	642.28	1.427E-03	.0787	1.786E-03	.0985	2.043E-03	.1126	1.732E-03	.0955
15.89	.307	646.11	1.489E-03	.0821	1.867E-03	.1029	2.138E-03	.1179	1.810E-03	.0998
16.25	.314	647.38	1.510E-03	.0832	1.894E-03	.1044	2.170E-03	.1196	1.836E-03	.1012
16.60	.321	651.08	1.571E-03	.0866	1.974E-03	.1088	2.264E-03	.1248	1.913E-03	.1055
16.96	.328	656.73	1.666E-03	.0919	2.099E-03	.1157	2.411E-03	.1329	2.033E-03	.1121
17.31	.335	661.49	1.751E-03	.0965	2.209E-03	.1218	2.542E-03	.1401	2.139E-03	.1179

NASA/81 OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
86	B	TILE INSERT	0.175	.010	.015	9.564E 05	1.589E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.8	1277	29.75	29.99	30.00	.25	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0284	1.255	3769	2.542E-05	7.537E-08	1.271E 06	1.814E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.088	2.455	35.709	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	665.47	1.823E-03	.1005	2.305E-03	.1271	2.655E-03	.1464	2.232E-03	.1230
18.01	.348	668.84	1.886E-03	.1040	2.387E-03	.1316	2.753E-03	.1518	2.311E-03	.1274
18.35	.355	671.49	1.935E-03	.1067	2.453E-03	.1352	2.831E-03	.1561	2.374E-03	.1309
18.70	.361	673.88	1.980E-03	.1092	2.512E-03	.1385	2.902E-03	.1600	2.431E-03	.1340
19.04	.368	678.09	2.060E-03	.1136	2.619E-03	.1444	3.029E-03	.1670	2.534E-03	.1397
19.38	.375	682.72	2.150E-03	.1185	2.736E-03	.1510	3.172E-03	.1749	2.648E-03	.1460
19.72	.381	685.31	2.200E-03	.1213	2.806E-03	.1547	3.254E-03	.1794	2.713E-03	.1496
20.06	.388	687.92	2.252E-03	.1241	2.875E-03	.1585	3.337E-03	.1839	2.779E-03	.1532
20.39	.394	692.07	2.334E-03	.1287	2.986E-03	.1646	3.471E-03	.1913	2.886E-03	.1591
20.73	.401	697.30	2.439E-03	.1345	3.128E-03	.1725	3.643E-03	.2008	3.023E-03	.1666
21.06	.407	702.77	2.551E-03	.1406	3.281E-03	.1809	3.828E-03	.2110	3.168E-03	.1747
21.39	.413	707.04	2.640E-03	.1455	3.402E-03	.1875	3.976E-03	.2192	3.284E-03	.1811
21.72	.420	708.92	2.679E-03	.1477	3.456E-03	.1905	4.042E-03	.2228	3.336E-03	.1839
22.05	.426	708.00	2.660E-03	.1466	3.430E-03	.1891	4.010E-03	.2211	3.311E-03	.1825
22.37	.432	710.26	2.707E-03	.1493	3.495E-03	.1927	4.089E-03	.2254	3.373E-03	.1860
22.69	.439	714.51	2.798E-03	.1542	3.619E-03	.1995	4.242E-03	.2339	3.492E-03	.1925
23.02	.445	716.57	2.842E-03	.1567	3.680E-03	.2029	4.317E-03	.2380	3.550E-03	.1957
23.34	.451	716.45	2.839E-03	.1565	3.677E-03	.2027	4.313E-03	.2378	3.547E-03	.1955
23.65	.457	718.88	2.891E-03	.1594	3.749E-03	.2067	4.402E-03	.2427	3.616E-03	.1994
23.97	.463	721.30	2.944E-03	.1623	3.822E-03	.2107	4.493E-03	.2477	3.686E-03	.2032
24.29	.469	721.70	2.953E-03	.1628	3.835E-03	.2114	4.508E-03	.2485	3.698E-03	.2038
24.60	.475	722.13	2.962E-03	.1633	3.848E-03	.2121	4.524E-03	.2494	3.710E-03	.2045

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
86	8	TILE INSERT	0.175	.010	.015	9.564E 05	1.589E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.8	1277	29.75	29.99	30.00	.25	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0284	1.255	3769	2.542E-05	7.537E-08	1.271E 06	1.814E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
37.088	2.455	35.709	500

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	725.35	3.033E-03	.1672	3.946E-03	.2176	4.646E-03	.2561	3.804E-03	.2097
25.22	.487	726.71	3.063E-03	.1689	3.989E-03	.2199	4.699E-03	.2590	3.844E-03	.2119
25.53	.493	726.90	3.067E-03	.1691	3.995E-03	.2202	4.706E-03	.2594	3.850E-03	.2123
25.83	.499	726.17	3.051E-03	.1682	3.972E-03	.2190	4.678E-03	.2579	3.828E-03	.2111
26.14	.505	681.50	2.127E-03	.1172	2.707E-03	.1492	3.135E-03	.1728	2.618E-03	.1443

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
R6	H	TILE INSERT	0.175	.010	.015	9.564E 05	1.589E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.8	1277	29.75	29.99	30.00	.25	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0284	1.255	3769	2.542E-05	7.537E-08	1.271E 06	1.814E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.088	2.455	35.709	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.077	535.53	535.47	533.43	533.51	533.31	532.92	532.60	532.54	536.68	537.04
2.073	538.42	538.60	535.47	535.08	534.28	533.51	533.01	532.86	536.81	537.04
3.070	540.51	540.72	537.09	536.35	535.08	534.02	533.40	533.13	536.90	537.30
4.066	542.25	542.45	538.51	537.54	535.82	534.46	533.69	533.37	537.13	537.39
5.063	543.75	543.98	539.78	538.60	536.53	534.91	534.02	533.63	537.48	537.88
6.060	545.13	545.33	540.95	539.60	537.21	535.29	534.34	533.90	537.39	537.80
7.056	546.42	546.59	542.04	540.54	537.89	535.73	534.61	534.17	537.48	537.84
8.053	547.59	547.76	543.10	541.48	538.54	536.12	534.91	534.40	537.62	537.97
9.049	548.70	548.85	544.07	542.37	539.16	536.47	535.17	534.61	537.84	538.20
10.046	549.75	549.90	545.01	543.19	539.81	536.92	535.47	534.85	537.97	538.46
11.042	550.75	550.89	545.92	544.01	540.42	537.27	535.76	535.11	538.15	538.60
12.039	551.71	551.83	546.80	544.83	541.04	537.71	536.03	535.35	538.20	538.60
13.036	552.61	552.73	547.65	545.60	541.66	538.13	536.32	535.59	538.29	538.82
14.032	553.49	553.57	548.44	546.36	542.22	538.51	536.62	535.82	538.60	538.95
15.029	554.36	554.45	549.23	547.06	542.84	538.89	536.89	536.06	538.76	539.22
16.025	555.15	555.26	550.02	547.79	543.42	539.30	537.18	536.32	538.87	539.31
17.022	555.96	556.02	550.77	548.42	544.01	539.72	537.51	536.59	538.91	539.40
18.018	556.72	556.80	551.50	549.17	544.57	540.13	537.77	536.83	539.04	539.49
19.015	557.47	557.53	552.20	549.84	545.13	540.54	538.10	537.06	539.31	539.76
20.012	558.20	558.26	552.90	550.48	545.71	540.95	538.42	537.30	539.58	539.94
21.008	558.89	558.98	553.60	551.12	546.24	541.37	538.72	537.62	539.58	540.07

NASA/RI OH60
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
86	6	TILE INSERT	0.175	.010	.015	9.564E 05	1.588E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.8	1277	29.75	29.99	30.00	.25	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0284	1.255	3769	2.542E-05	7.537E-08	1.271E 06	1.814E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.088	2.455	35.709	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.005	559.62	559.65	554.27	551.77	546.80	541.78	539.04	537.89	539.76	540.11
23.001	560.29	560.34	554.88	552.38	547.32	542.19	539.36	538.13	539.76	540.29
23.998	560.95	561.01	555.55	552.99	547.88	542.60	539.66	538.39	540.07	540.43
24.994	561.59	561.65	556.16	553.57	548.41	543.01	539.98	538.66	540.29	540.69
25.991	562.23	562.28	556.80	554.19	548.93	543.42	540.34	538.95	540.34	540.83
26.988	562.86	562.92	557.41	554.77	549.43	543.84	540.63	539.28	540.47	540.92
27.984	563.50	563.50	557.99	555.32	549.96	544.25	540.98	539.54	540.56	541.00
28.981	564.10	564.10	558.57	555.90	550.45	544.66	541.31	539.81	540.78	541.27
29.977	564.71	564.71	559.16	556.46	550.95	545.04	541.63	540.07	541.09	541.45
30.974	565.29	565.32	559.71	557.01	551.45	545.45	541.98	540.39	541.18	541.58
31.970	565.87	565.87	560.29	557.53	551.97	545.89	542.31	540.69	541.23	541.67
32.967	566.44	565.41	560.86	558.08	552.44	546.30	542.63	540.95	541.32	541.76
33.964	566.99	566.96	561.39	558.60	552.93	546.68	542.98	541.25	541.54	542.03
34.960	567.57	567.54	561.91	559.13	553.40	547.09	543.31	541.54	541.76	542.29
35.692	567.97	567.91	562.28	559.50	553.78	547.38	543.57	541.78	541.94	542.21
35.957	568.11	568.06	562.43	559.65	553.89	547.47	543.66	541.87	541.85	542.25
36.953	568.66	568.57	562.98	560.17	554.36	547.91	544.01	542.16	541.98	542.47
37.950	569.21	569.12	563.50	560.69	554.83	548.29	544.36	542.48	542.07	542.56
38.946	569.72	569.64	563.99	561.15	555.29	548.70	544.69	542.78	542.25	542.74
39.943	570.30	570.16	564.54	561.82	555.73	549.11	545.07	543.10	542.47	543.01

AEDC (ARO, INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
B6	8	TILE INSERT	0.175	.010	.015	9.564E 05	1.589E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.8	1277	29.75	29.99	30.00	.25	30.00	0

T - INF (DEG R)	P - INF (PSIA)	U - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLLG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0284	1.255	3769	2.542E-05	7.537E-08	1.271E 06	1.814E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
37.088	2.455	35.709	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.045	1
12.533	2
35.783	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
R7	8	TILE INSERT	0.175	.010	.015	7.762E 05	1.289E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	213.9	1270	39.71	40.00	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.1	.0228	1.010	3759	2.057E-05	7.495E-08	1.032E 06	1.626E-02	71

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
26.665	2.441	25.294	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	556.40	3.271E-04	.0201	3.980E-04	.0245	4.463E-04	.0275	3.706E-04	.0228
8.15	.158	57[illegible].74	5.298E-04	.0326	6.474E-04	.0398	7.282E-04	.0448	6.019E-04	.0370
8.60	.166	585.15	7.471E-04	.0460	9.172E-04	.0564	1.035E-03	.0637	8.512E-04	.0524
9.05	.175	607.77	1.115E-03	.0686	1.380E-03	.0849	1.566E-03	.0963	1.277E-03	.0785
9.49	.183	701.29	3.064E-03	.1884	3.945E-03	.2426	4.607E-03	.2834	3.593E-03	.2210
9.93	.192	652.15	1.940E-03	.1193	2.441E-03	.1502	2.804E-03	.1725	2.244E-03	.1380
10.37	.200	636.59	1.634E-03	.1005	2.044E-03	.1257	2.337E-03	.1437	1.883E-03	.1158
10.81	.209	644.27	1.782E-03	.1096	2.236E-03	.1376	2.563E-03	.1576	2.058E-03	.1266
11.24	.217	652.52	1.947E-03	.1198	2.451E-03	.1508	2.816E-03	.1732	2.253E-03	.1386
11.67	.226	660.49	2.112E-03	.1299	2.668E-03	.1641	3.073E-03	.1890	2.449E-03	.1506
12.10	.234	671.11	2.349E-03	.1445	2.981E-03	.1833	3.444E-03	.2119	2.730E-03	.1679
12.52	.242	681.19	2.580E-03	.1587	3.290E-03	.2024	3.815E-03	.2346	3.008E-03	.1850
12.94	.250	686.44	2.704E-03	.1663	3.456E-03	.2126	4.014E-03	.2469	3.157E-03	.1942
13.36	.258	696.19	2.938E-03	.1807	3.774E-03	.2321	4.399E-03	.2706	3.441E-03	.2116
13.78	.266	703.68	3.123E-03	.1921	4.026E-03	.2477	4.707E-03	.2895	3.665E-03	.2255
14.19	.274	712.50	3.346E-03	.2058	4.334E-03	.2666	5.084E-03	.3127	3.938E-03	.2422
14.60	.282	722.58	3.609E-03	.2220	4.699E-03	.2890	5.535E-03	.3405	4.261E-03	.2621
15.01	.290	731.77	3.855E-03	.2371	5.046E-03	.3104	5.968E-03	.3671	4.566E-03	.2809
15.41	.298	734.97	3.943E-03	.2425	5.170E-03	.3180	6.124E-03	.3767	4.675E-03	.2876
15.81	.306	738.42	4.038E-03	.2484	5.306E-03	.3264	6.294E-03	.3872	4.794E-03	.2949
16.21	.313	743.18	4.172E-03	.2566	5.497E-03	.3381	6.535E-03	.4020	4.960E-03	.3051

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A7	8	TILE INSERT	0.175	.010	.015	7.762E 05	1.289E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	213.9	1270	39.71	40.00	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.1	.0228	1.010	3759	2.057E-05	7.495E-08	1.032E 06	1.626E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
26.665	2.441	25.294	500

X (IN)	X/L	TW. (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	745.05	4.223E-03	.2598	5.571E-03	.3427	6.629E-03	.4078	5.025E-03	.3091
17.00	.329	752.25	4.374E-03	.2690	5.789E-03	.3561	6.905E-03	.4247	5.214E-03	.3207
17.39	.336	752.64	4.444E-03	.2733	5.890E-03	.3623	7.035E-03	.4327	5.302E-03	.3262
17.77	.344	752.59	4.441E-03	.2732	5.887E-03	.3621	7.030E-03	.4324	5.299E-03	.3260
18.16	.351	753.45	4.467E-03	.2748	5.924E-03	.3644	7.077E-03	.4353	5.332E-03	.3279
18.54	.358	753.75	4.476E-03	.2753	5.936E-03	.3652	7.094E-03	.4364	5.343E-03	.3286
18.92	.366	753.31	4.463E-03	.2745	5.918E-03	.3640	7.070E-03	.4349	5.327E-03	.3277
19.29	.373	755.06	4.515E-03	.2777	5.993E-03	.3686	7.166E-03	.4408	5.392E-03	.3316
19.66	.380	755.73	4.534E-03	.2789	6.021E-03	.3704	7.203E-03	.4430	5.416E-03	.3332
20.03	.387	753.84	4.479E-03	.2755	5.941E-03	.3654	7.100E-03	.4367	5.347E-03	.3289
20.40	.394	754.62	4.502E-03	.2769	5.974E-03	.3675	7.142E-03	.4393	5.375E-03	.3306
20.76	.401	757.45	4.584E-03	.2820	6.094E-03	.3748	7.296E-03	.4488	5.479E-03	.3370
21.12	.408	759.32	4.641E-03	.2855	6.178E-03	.3800	7.403E-03	.4554	5.552E-03	.3415
21.48	.415	761.41	4.704E-03	.2893	6.270E-03	.3856	7.522E-03	.4627	5.631E-03	.3464
21.84	.422	760.49	4.676E-03	.2876	6.229E-03	.3831	7.469E-03	.4594	5.596E-03	.3442
22.19	.429	757.98	4.601E-03	.2830	6.119E-03	.3764	7.328E-03	.4507	5.501E-03	.3384
22.54	.436	757.57	4.589E-03	.2823	6.101E-03	.3753	7.305E-03	.4493	5.486E-03	.3374
22.88	.442	759.93	4.660E-03	.2866	6.205E-03	.3817	7.438E-03	.4575	5.575E-03	.3429
23.23	.449	759.17	4.637E-03	.2852	6.172E-03	.3796	7.395E-03	.4549	5.546E-03	.3412
23.57	.456	757.59	4.590E-03	.2823	6.103E-03	.3754	7.307E-03	.4494	5.487E-03	.3375
23.91	.462	757.77	4.595E-03	.2827	6.110E-03	.3759	7.317E-03	.4501	5.494E-03	.3379
24.24	.469	757.89	4.599E-03	.2829	6.116E-03	.3762	7.324E-03	.4505	5.498E-03	.3382

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
R7	8	TILE INSERT	0.175	.010	.015	7.762E 05	1.289E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	213.9	1270	39.71	40.00	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.1	.0228	1.010	3759	2.057E-05	7.495E-08	1.032E 06	1.626E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
26.665	2.441	25.294	500

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO).	H(.934TO)/HREF
24.57	.475	756.14	4.547E-03	.2797	6.040E-03	.3715	7.227E-03	.4445	5.433E-03	.3342
24.90	.481	756.62	4.561E-03	.2806	6.061E-03	.3728	7.253E-03	.4461	5.451E-03	.3353
25.23	.488	756.96	4.631E-03	.2849	6.163E-03	.3791	7.364E-03	.4542	5.539E-03	.3407
25.55	.494	756.60	4.561E-03	.2806	6.060E-03	.3728	7.253E-03	.4461	5.450E-03	.3353
25.87	.500	755.15	4.518E-03	.2779	5.998E-03	.3689	7.172E-03	.4412	5.396E-03	.3319

NASA/RI OHIO
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
87	8	TILE INSERT	0.175	.010	.015	7.762E 05	1.289E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	213.9	1270	39.71	40.00	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.1	.0228	1.010	3759	2.057E-05	7.495E-08	1.032E 06	1.626E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
26.665	2.441	25.294	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.071	530.04	529.87	528.26	528.44	528.35	527.93	527.64	527.61	525.21	526.65
2.067	532.54	532.80	530.25	530.07	529.39	528.62	528.14	527.93	526.02	527.23
3.064	534.37	534.70	531.77	531.35	530.28	529.21	528.59	528.29	526.60	527.91
4.060	535.85	536.24	533.07	532.45	531.02	529.72	528.98	528.65	527.28	528.67
5.057	537.21	537.56	534.23	533.46	531.71	530.19	529.33	528.89	528.13	529.48
6.054	538.45	538.74	535.26	534.37	532.42	530.61	529.66	529.21	529.07	530.33
7.050	539.54	539.86	536.27	535.29	533.07	531.05	530.02	529.48	529.84	531.09
8.047	540.60	540.90	537.21	536.12	533.72	531.50	530.34	529.81	530.55	531.76
9.043	541.60	541.87	538.10	536.92	534.31	531.91	530.64	530.10	531.18	532.39
10.040	542.57	542.81	538.98	537.68	534.94	532.33	530.94	530.37	532.03	533.28
11.036	543.48	543.72	539.78	538.45	535.53	532.71	531.26	530.61	532.88	534.04
12.033	544.33	544.57	540.57	539.19	536.12	533.13	531.56	530.88	533.73	534.80
13.030	545.19	545.36	541.37	539.89	536.71	533.54	531.88	531.17	534.45	535.56
14.026	545.98	546.19	542.13	540.60	537.30	533.96	532.18	531.47	535.07	536.19
15.023	546.77	546.94	542.87	541.28	537.86	534.34	532.51	531.71	535.74	536.90
16.019	547.53	547.70	543.54	541.95	538.42	534.76	532.80	531.97	536.59	537.66
17.016	548.26	548.44	544.25	542.60	538.95	535.17	533.10	532.24	537.48	538.46
18.012	548.99	549.11	544.92	543.25	539.51	535.56	533.43	532.51	538.11	539.22
19.009	549.66	549.81	545.60	543.86	540.07	535.97	533.75	532.80	538.87	539.89
20.006	550.37	550.48	546.27	544.48	540.60	536.38	534.08	533.10	539.45	540.56
21.002	551.01	551.12	546.89	545.10	541.13	536.83	534.40	533.37	540.25	541.23

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
R7	8	TILE INSERT	0.175	.010	.015	7.762E 05	1.289E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	213.9	1270	39.71	40.00	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.1	.0228	1.010	3759	2.057E-05	7.495E-08	1.032E 06	1.626E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
26.665	2.441	25.294	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.999	551.68	551.80	547.50	545.68	541.66	537.21	534.73	533.63	541.00	542.07
22.995	552.32	552.44	548.11	546.30	542.16	537.62	535.05	533.93	541.76	542.87
23.992	552.93	553.05	548.73	546.86	542.69	538.01	535.38	534.23	542.47	543.45
24.988	553.55	553.66	549.31	547.41	543.19	538.45	535.73	534.52	543.10	544.16
25.276	553.72	553.81	549.49	547.59	543.37	538.57	535.82	534.58	543.41	544.56
25.985	554.13	554.24	549.90	547.97	543.69	538.86	536.06	534.82	543.72	544.83
26.982	554.74	554.83	550.48	548.52	544.22	539.25	536.38	535.11	544.47	545.54
27.978	555.32	555.41	551.01	549.08	544.69	539.66	536.71	535.35	545.27	546.38
28.975	555.87	555.99	551.59	549.61	545.13	540.07	537.06	535.67	546.03	547.05

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/FI 0H69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A7	A	TILE INSERT	0.175	.010	.015	7.762E 05	1.289E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	213.9	1270	39.71	40.00	30.00	-9.71	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.1	.0228	1.010	3759	2.057E-05	7.495E-08	1.032E 06	1.626E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
26.665	2.441	25.294	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.047	1
13.894	2
25.560	3

NASA/RI 0H69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
88	8	TILE INSERT	0.175	.010	.015	5.673E 05	9.424E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.8	1267	39.80	40.01	30.00	-9.80	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0168	.739	3754	1.509E-05	7.515E-08	7.539E 05	1.390E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
42.514	2.437	41.146	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
8.15	.158	568.48	3.810E-04	.0274	4.654E-04	.0335	5.234E-04	.0376	4.327E-04	.0311
8.60	.166	579.97	5.149E-04	.0370	6.313E-04	.0454	7.117E-04	.0512	5.861E-04	.0422
9.05	.175	600.03	7.649E-04	.0550	9.443E-04	.0679	1.070E-03	.0769	8.744E-04	.0629
9.49	.183	699.89	2.372E-03	.1706	3.055E-03	.2197	3.568E-03	.2566	2.782E-03	.2001
9.93	.192	652.89	1.527E-03	.1098	1.924E-03	.1384	2.211E-03	.1590	1.767E-03	.1271
10.37	.200	631.[illegible]	1.194E-03	.0859	1.491E-03	.1072	1.702E-03	.1224	1.374E-03	.0988
10.81	.209	635.24	1.255E-03	.0902	1.569E-03	.1129	1.794E-03	.1291	1.446E-03	.1040
11.24	.217	638.18	1.299E-03	.0934	1.626E-03	.1170	1.861E-03	.1339	1.498E-03	.1077
11.67	.226	638.01	1.296E-03	.0932	1.623E-03	.1167	1.857E-03	.1336	1.495E-03	.1075
12.10	.234	639.35	1.317E-03	.0947	1.649E-03	.1186	1.888E-03	.1358	1.519E-03	.1092
12.52	.242	640.29	1.331E-03	.0957	1.668E-03	.1200	1.910E-03	.1374	1.535E-03	.1104
12.94	.250	640.29	1.331E-03	.0957	1.668E-03	.1200	1.910E-03	.1374	1.535E-03	.1104
13.36	.258	641.38	1.347E-03	.0969	1.689E-03	.1215	1.935E-03	.1392	1.555E-03	.1118
13.78	.266	640.68	1.337E-03	.0961	1.676E-03	.1205	1.919E-03	.1380	1.542E-03	.1109
14.19	.274	640.65	1.336E-03	.0961	1.675E-03	.1205	1.918E-03	.1380	1.542E-03	.1109
14.60	.282	642.05	1.358E-03	.0976	1.703E-03	.1225	1.951E-03	.1403	1.567E-03	.1127
15.01	.290	641.82	1.354E-03	.0974	1.698E-03	.1222	1.945E-03	.1399	1.563E-03	.1124
15.41	.298	641.35	1.347E-03	.0969	1.689E-03	.1215	1.934E-03	.1391	1.554E-03	.1118
15.81	.306	642.11	1.359E-03	.0977	1.704E-03	.1226	1.952E-03	.1404	1.568E-03	.1128
16.21	.313	643.40	1.378E-03	.0991	1.730E-03	.1244	1.982E-03	.1426	1.591E-03	.1145
16.61	.321	644.63	1.397E-03	.1005	1.754E-03	.1262	2.012E-03	.1447	1.614E-03	.1161

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
88	8	TILE INSERT	0.175	.010	.015	5.673E 05	9.424E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.8	1267	39.80	40.01	30.00	-9.80	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0168	.739	3754	1.509E-05	7.515E-08	7.539E 05	1.390E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
42.514	2.437	41.146	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.00	.329	647.57	1.443E-03	.1038	1.814E-03	.1305	2.082E-03	.1497	1.668E-03	.1200
17.39	.336	650.17	1.484E-03	.1067	1.867E-03	.1343	2.144E-03	.1542	1.716E-03	.1235
17.77	.344	650.86	1.495E-03	.1075	1.882E-03	.1354	2.162E-03	.1555	1.729E-03	.1244
18.16	.351	652.75	1.525E-03	.1097	1.921E-03	.1382	2.208E-03	.1588	1.765E-03	.1270
18.54	.358	652.89	1.527E-03	.1099	1.924E-03	.1384	2.212E-03	.1591	1.768E-03	.1271
18.92	.366	653.16	1.531E-03	.1101	1.930E-03	.1388	2.218E-03	.1595	1.773E-03	.1275
19.29	.373	655.43	1.568E-03	.1128	1.978E-03	.1423	2.275E-03	.1636	1.816E-03	.1306
19.66	.380	657.21	1.597E-03	.1149	2.016E-03	.1450	2.320E-03	.1669	1.851E-03	.1331
20.03	.387	656.09	1.579E-03	.1136	1.992E-03	.1433	2.292E-03	.1648	1.829E-03	.1316
20.40	.394	655.04	1.562E-03	.1123	1.970E-03	.1417	2.265E-03	.1629	1.809E-03	.1301
20.76	.401	655.84	1.575E-03	.1133	1.987E-03	.1429	2.285E-03	.1644	1.824E-03	.1312
21.12	.408	657.02	1.594E-03	.1147	2.012E-03	.1447	2.315E-03	.1665	1.847E-03	.1328
21.48	.415	658.63	1.620E-03	.1166	2.047E-03	.1472	2.356E-03	.1695	1.878E-03	.1351
21.84	.422	658.82	1.623E-03	.1168	2.051E-03	.1475	2.361E-03	.1698	1.882E-03	.1354
22.19	.429	657.64	1.604E-03	.1154	2.025E-03	.1457	2.331E-03	.1677	1.859E-03	.1337
22.54	.436	657.75	1.606E-03	.1155	2.027E-03	.1458	2.334E-03	.1679	1.861E-03	.1339
22.88	.442	660.30	1.648E-03	.1186	2.083E-03	.1498	2.400E-03	.1726	1.912E-03	.1375
23.23	.449	661.77	1.674E-03	.1204	2.117E-03	.1522	2.439E-03	.1755	1.941E-03	.1396
23.57	.456	661.01	1.661E-03	.1194	2.099E-03	.1510	2.419E-03	.1740	1.926E-03	.1385
23.91	.462	661.95	1.677E-03	.1206	2.121E-03	.1525	2.444E-03	.1758	1.945E-03	.1399
24.24	.469	663.49	1.703E-03	.1225	2.156E-03	.1551	2.486E-03	.1788	1.977E-03	.1422
24.57	.475	664.20	1.716E-03	.1234	2.172E-03	.1562	2.506E-03	.1802	1.992E-03	.1433

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
88	8	TILE INSERT	0.175	.010	.015	5.673E 05	9.424E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.8	1267	39.80	40.01	30.00	-9.80	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0168	.739	3754	1.509E-05	7.515E-08	7.539E 05	1.390E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
42.514	2.437	41.146	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.481	665.43	1.737E-03	.1250	2.201E-03	.1583	2.539E-03	.1827	2.017E-03	.1451
25.23	.488	667.32	1.770E-03	.1273	2.244E-03	.1614	2.592E-03	.1864	2.057E-03	.1479
25.55	.494	667.22	1.769E-03	.1272	2.242E-03	.1613	2.589E-03	.1862	2.055E-03	.1478
25.87	.500	668.85	1.798E-03	.1293	2.280E-03	.1640	2.634E-03	.1895	2.089E-03	.1503

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A8	8	TILE INSERT	0.175	.010	.015	5.673E 05	9.424E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.8	1267	39.80	40.01	30.00	-9.80	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0168	.739	3754	1.509E-05	7.515E-08	7.539E 05	1.390E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
42.514	2.437	41.146	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.069	528.59	528.38	526.98	527.13	527.19	526.71	526.36	526.39	529.66	530.33
2.065	530.79	530.97	528.74	528.59	528.02	527.34	526.83	526.71	530.02	530.55
3.062	532.36	532.63	530.07	529.69	528.77	527.85	527.22	527.01	530.24	530.69
4.058	533.66	533.96	531.17	530.64	529.45	528.26	527.58	527.25	530.69	531.14
5.055	534.85	535.11	532.18	531.53	530.07	528.68	527.87	527.55	531.00	531.40
6.052	535.88	536.15	533.10	532.33	530.64	529.06	528.17	527.82	531.27	531.72
7.048	536.86	537.12	533.96	533.10	531.20	529.45	528.47	528.05	531.54	531.85
8.045	537.80	538.01	534.79	533.84	531.77	529.81	528.74	528.32	531.67	532.08
9.041	538.66	538.86	535.56	534.52	532.30	530.16	529.00	528.53	532.08	532.43
10.038	539.48	539.66	536.29	535.20	532.83	530.52	529.27	528.77	532.43	532.79
11.034	540.31	540.45	537.00	535.85	533.34	530.88	529.54	529.03	532.66	533.10
12.031	541.01	541.19	537.71	536.50	533.87	531.23	529.81	529.27	532.88	533.33
13.028	541.78	541.90	538.39	537.12	534.37	531.59	530.10	529.51	533.10	533.46
14.024	542.45	542.60	539.07	537.71	534.91	531.94	530.37	529.72	533.33	533.78
15.021	543.16	543.28	539.66	538.30	535.35	532.30	530.64	529.96	533.73	534.04
16.017	543.84	543.92	540.28	538.89	535.85	532.66	530.91	530.16	534.09	534.45
17.014	544.45	544.54	540.90	539.45	536.35	533.01	531.20	530.46	534.27	534.67
18.010	545.07	545.16	541.48	540.01	536.80	533.37	531.44	530.70	534.40	534.89
19.007	545.65	545.77	542.04	540.57	537.27	533.72	531.74	530.91	534.67	535.07
20.004	546.24	546.33	542.60	541.10	537.74	534.08	532.00	531.14	534.94	535.34
21.000	546.83	546.91	543.16	541.60	538.18	534.40	532.30	531.38	535.30	535.70

NASA/RI 0H69
V41d-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
88	8	TILE INSERT	0.175	.010	.015	5.673E 05	9.424E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.8	1267	39.80	40.01	30.00	-9.80	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0168	.739	3754	1.509E-05	7.515E-08	7.539E 05	1.390E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
42.514	2.437	41.146	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.997	547.41	547.47	543.69	542.13	538.66	534.79	532.57	531.65	535.56	535.97
22.993	547.94	548.03	544.22	542.63	539.10	535.11	532.86	531.91	535.79	536.19
23.990	548.49	548.55	544.77	543.13	539.54	535.50	533.16	532.15	535.97	536.37
24.986	548.99	549.05	545.27	543.63	539.98	535.85	533.43	532.39	536.23	536.55
25.983	549.55	549.58	545.74	544.13	540.42	536.18	533.72	532.63	536.59	536.90
26.980	550.07	550.10	546.24	544.60	540.84	536.53	534.02	532.89	536.95	537.30
27.976	550.54	550.60	546.74	545.07	541.28	536.89	534.31	533.16	537.13	537.53
28.973	551.04	551.10	547.21	545.54	541.72	537.27	534.61	533.43	537.17	537.66
29.969	551.53	551.56	547.68	546.01	542.13	537.62	534.91	533.69	537.48	537.88
30.966	552.03	552.03	548.17	546.45	542.54	537.95	535.20	533.93	537.80	538.20
31.962	552.50	552.53	548.61	546.89	542.95	538.30	535.50	534.20	538.11	538.51
32.959	552.96	552.96	549.05	547.32	543.37	538.63	535.79	534.49	538.38	538.78
33.956	553.40	553.43	549.52	547.76	543.78	539.01	536.09	534.76	538.55	538.95
34.952	553.87	553.89	549.96	548.20	544.19	539.33	536.38	535.05	538.69	539.13
35.949	554.33	554.33	550.39	548.61	544.57	539.72	536.68	535.29	538.95	539.36
36.945	554.77	554.77	550.83	549.05	544.98	540.04	536.97	535.53	539.31	539.80
37.942	555.20	555.20	551.27	549.49	545.36	540.37	537.30	535.82	539.58	540.02
38.938	555.64	555.61	551.68	549.90	545.77	540.72	537.59	536.12	539.80	540.20
39.935	556.08	556.05	552.15	550.31	546.15	541.07	537.89	536.41	539.98	540.38
40.932	556.48	556.48	552.53	550.69	546.53	541.40	538.21	536.68	540.16	540.65
41.128	556.57	556.57	552.61	550.77	546.59	541.45	538.24	536.71	540.38	540.83
41.928	556.89	556.86	552.93	551.10	546.91	541.75	538.48	536.92	540.47	540.92

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K_t	REX	REK
88	8	TILE INSERT	0.175	.010	.015	5.573E 05	9.424E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.8	1267	39.80	40.01	30.00	-9.80	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0168	.739	3754	1.509E-05	7.515E-08	7.539E 05	1.390E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
42.514	2.437	41.146	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
-2.925	557.33	557.30	553.31	551.50	547.30	542.07	538.77	537.18	540.78	541.27
43.921	557.73	557.70	553.78	552.06	547.38	542.45	539.16	537.48	541.00	541.49

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
88	8	TILE INSERT	0.175	.010	.015	5.673E 05	9.424E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.8	1267	39.80	40.01	30.00	-9.80	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0168	.739	3754	1.509E-05	7.515E-08	7.539E 05	1.390E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
42.514	2.437	41.146	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.118	1
10.344	2
41.082	3

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
89	8	TILE INSERT	0.175	.010	.015	7.626E 05	1.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.5	1278	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0228	1.004	3771	2.032E-05	7.562E-08	1.013E 06	1.623E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
41.024	2.423	39.663	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	589.99	6.496E-04	.0400	7.978E-04	.0492	9.005E-04	.0555	7.758E-04	.0478
10.33	.200	615.06	9.792E-04	.0603	1.213E-03	.0747	1.377E-03	.0849	1.178E-03	.0726
10.71	.207	619.49	1.041E-03	.0641	1.291E-03	.0796	1.468E-03	.0905	1.254E-03	.0773
11.10	.214	617.94	1.019E-03	.0628	1.264E-03	.0779	1.436E-03	.0885	1.227E-03	.0756
11.48	.222	618.80	1.031E-03	.0635	1.279E-03	.0788	1.454E-03	.0896	1.242E-03	.0765
11.85	.229	620.61	1.057E-03	.0651	1.312E-03	.0808	1.492E-03	.0919	1.273E-03	.0785
12.23	.236	621.80	1.073E-03	.0661	1.333E-03	.0821	1.516E-03	.0934	1.294E-03	.0797
12.60	.244	621.48	1.069E-03	.0659	1.327E-03	.0818	1.510E-03	.0930	1.289E-03	.0794
12.98	.251	621.92	1.075E-03	.0662	1.335E-03	.0823	1.519E-03	.0936	1.296E-03	.0799
13.35	.258	621.68	1.072E-03	.0660	1.331E-03	.0820	1.514E-03	.0933	1.292E-03	.0796
13.72	.265	621.48	1.069E-03	.0659	1.327E-03	.0818	1.510E-03	.0930	1.289E-03	.0794
14.08	.272	622.23	1.080E-03	.0665	1.341E-03	.0826	1.525E-03	.0940	1.302E-03	.0802
14.45	.279	622.74	1.087E-03	.0670	1.350E-03	.0832	1.536E-03	.0946	1.311E-03	.0808
14.81	.286	622.27	1.080E-03	.0666	1.342E-03	.0827	1.526E-03	.0940	1.302E-03	.0802
15.17	.293	621.03	1.074E-03	.0662	1.334E-03	.0822	1.517E-03	.0935	1.295E-03	.0798
15.53	.300	622.27	1.080E-03	.0666	1.342E-03	.0827	1.526E-03	.0940	1.302E-03	.0803
15.89	.307	622.47	1.083E-03	.0667	1.345E-03	.0829	1.530E-03	.0943	1.306E-03	.0805
16.25	.314	622.19	1.079E-03	.0665	1.340E-03	.0826	1.525E-03	.0939	1.301E-03	.0802
16.60	.321	624.32	1.109E-03	.0684	1.379E-03	.0850	1.570E-03	.0967	1.339E-03	.0825
16.96	.328	626.85	1.146E-03	.0706	1.425E-03	.0878	1.624E-03	.1000	1.383E-03	.0852
17.31	.335	627.33	1.153E-03	.0710	1.434E-03	.0884	1.634E-03	.1007	1.392E-03	.0858

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A9	8	TILE INSERT	0.175	.010	.015	7.626E 05	1.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.5	1278	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0228	1.004	3771	2.032E-05	7.562E-08	1.013E 06	1.623E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
41.024	2.423	39.663	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	628.69	1.172E-03	.0722	1.460E-03	.0899	1.663E-03	.1025	1.416E-03	.0873
18.01	.348	629.74	1.188E-03	.0732	1.479E-03	.0911	1.686E-03	.1039	1.435E-03	.0884
18.35	.355	629.27	1.181E-03	.0728	1.470E-03	.0906	1.676E-03	.1033	1.427E-03	.0879
18.70	.361	628.54	1.170E-03	.0721	1.457E-03	.0898	1.660E-03	.1023	1.414E-03	.0871
19.04	.368	630.24	1.195E-03	.0736	1.488E-03	.0917	1.697E-03	.1046	1.445E-03	.0890
19.38	.375	633.06	1.237E-03	.0762	1.542E-03	.0950	1.759E-03	.1084	1.496E-03	.0922
19.72	.381	632.29	1.225E-03	.0755	1.527E-03	.0941	1.742E-03	.1074	1.482E-03	.0913
20.06	.388	631.23	1.195E-03	.0736	1.488E-03	.0917	1.696E-03	.1045	1.444E-03	.0890
20.39	.394	630.56	1.200E-03	.0739	1.495E-03	.0921	1.704E-03	.1050	1.450E-03	.0894
20.73	.401	630.99	1.206E-03	.0743	1.503E-03	.0926	1.714E-03	.1056	1.458E-03	.0899
21.06	.407	630.78	1.203E-03	.0741	1.499E-03	.0924	1.709E-03	.1053	1.454E-03	.0896
21.39	.413	631.70	1.216E-03	.0750	1.516E-03	.0934	1.729E-03	.1066	1.471E-03	.0906
21.72	.420	631.13	1.208E-03	.0744	1.506E-03	.0928	1.717E-03	.1058	1.461E-03	.0900
22.05	.426	631.17	1.209E-03	.0745	1.506E-03	.0928	1.718E-03	.1058	1.462E-03	.0901
22.37	.432	631.17	1.209E-03	.0745	1.506E-03	.0928	1.718E-03	.1058	1.462E-03	.0901
22.69	.439	632.36	1.226E-03	.0756	1.529E-03	.0942	1.744E-03	.1075	1.483E-03	.0914
23.02	.445	633.31	1.240E-03	.0764	1.547E-03	.0953	1.765E-03	.1087	1.501E-03	.0925
23.34	.451	633.06	1.237E-03	.0762	1.542E-03	.0950	1.760E-03	.1084	1.496E-03	.0922
23.65	.457	633.10	1.237E-03	.0762	1.543E-03	.0951	1.760E-03	.1085	1.497E-03	.0922
23.97	.463	634.03	1.251E-03	.0771	1.561E-03	.0962	1.781E-03	.1097	1.514E-03	.0933
24.29	.469	633.89	1.249E-03	.0770	1.558E-03	.0960	1.778E-03	.1096	1.512E-03	.0931
24.60	.475	634.58	1.259E-03	.0776	1.571E-03	.0968	1.793E-03	.1105	1.524E-03	.0939

C-

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
89	8	TILE INSERT	0.175	.010	.015	7.626E 05	1.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.5	1278	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0228	1.004	3771	2.032E-05	7.562E-08	1.013E 06	1.623E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
41.024	2.423	39.663	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	635.67	1.275E-03	.0786	1.592E-03	.0981	1.818E-03	.1120	1.544E-03	.0952
25.22	.487	634.55	1.259E-03	.0776	1.571E-03	.0968	1.793E-03	.1105	1.524E-03	.0939
25.53	.493	635.12	1.267E-03	.0781	1.582E-03	.0975	1.806E-03	.1113	1.534E-03	.0945
25.83	.499	636.27	1.284E-03	.0791	1.604E-03	.0988	1.832E-03	.1129	1.556E-03	.0959
26.14	.505	595.75	7.227E-04	.0445	8.893E-04	.0548	1.005E-03	.0619	8.646E-04	.0533

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
89	8	TILE INSERT	0.175	.010	.015	7.626E 05	1.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.5	1278	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0228	1.004	3771	2.032E-05	7.562E-08	1.013E 06	1.623E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
41.024	2.423	39.663	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.063	530.79	530.28	528.50	528.50	528.38	527.99	527.61	527.58	528.09	528.54
2.059	533.43	533.16	530.34	529.93	529.27	528.53	527.99	527.85	528.49	528.67
3.056	535.35	535.14	531.86	531.11	530.02	528.98	528.35	528.11	528.62	528.85
4.052	536.94	536.71	533.13	532.15	530.47	529.39	528.68	528.38	528.67	528.89
5.049	538.33	538.10	534.28	533.16	531.29	529.81	528.95	528.65	528.49	528.85
6.046	539.60	539.33	535.35	534.08	531.94	530.19	529.21	528.86	528.71	528.94
7.042	540.75	540.45	536.35	534.94	532.54	530.55	529.48	529.06	528.85	529.07
8.039	541.87	541.54	537.30	535.76	533.13	530.91	529.75	529.30	529.07	529.21
9.035	542.90	542.54	538.18	536.56	533.72	531.26	530.02	529.54	529.12	529.34
10.032	543.84	543.48	539.04	537.33	534.31	531.65	530.28	529.75	529.03	529.34
11.028	544.77	544.36	539.89	538.07	534.85	532.00	530.52	529.99	529.07	529.30
12.025	545.65	545.24	540.66	538.80	535.41	532.36	530.79	530.19	529.21	529.48
13.022	546.47	546.06	541.42	539.48	535.97	532.71	531.05	530.37	529.39	529.66
14.018	547.30	546.86	542.16	540.19	536.50	533.10	531.29	530.61	529.48	529.70
15.015	548.06	547.62	542.90	540.84	537.03	533.46	531.56	530.88	529.48	529.70
16.011	548.79	548.38	543.60	541.48	537.59	533.84	531.83	531.05	529.48	529.70
17.008	549.52	549.08	544.28	542.13	538.13	534.20	532.09	531.29	529.57	529.88
18.004	550.25	549.78	544.92	542.75	538.63	534.55	532.39	531.53	529.79	529.97
19.001	550.92	550.48	545.57	543.37	539.16	534.94	532.66	531.74	529.93	530.15
19.998	551.59	551.12	546.21	543.95	539.66	535.29	532.92	532.00	529.93	530.24
20.994	552.26	551.77	546.83	544.54	540.16	535.67	533.22	532.27	529.88	530.10

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
A9	8	TILE INSERT	0.175	.010	.015	7.626E 05	1.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.5	1278	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0228	1.004	3771	2.032E-05	7.562E-08	1.013E 06	1.623E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
41.024	2.423	39.663	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.991	552.87	552.38	547.44	545.13	540.66	536.06	533.51	532.48	530.06	530.28
22.987	553.52	553.02	548.03	545.68	541.13	536.44	533.78	532.69	530.24	530.42
23.984	554.13	553.60	548.61	546.24	541.63	536.77	534.08	532.95	530.33	530.55
24.980	554.71	554.22	549.17	546.80	542.10	537.18	534.37	533.22	530.37	530.64
25.977	555.32	554.77	549.75	547.32	542.57	537.56	534.67	533.48	530.42	530.60
26.974	555.87	555.32	550.28	547.85	543.07	537.92	534.96	533.72	530.46	530.73
27.970	556.46	555.87	550.83	548.38	543.54	538.30	535.29	533.96	530.60	530.78
28.967	557.01	556.46	551.36	548.88	543.98	538.66	535.59	534.23	530.78	531.00
29.963	557.53	556.98	551.88	549.40	544.45	539.04	535.88	534.49	530.78	531.09
30.960	558.08	557.50	552.41	549.90	544.92	539.42	536.18	534.79	530.78	531.14
31.956	558.60	558.02	552.93	550.39	545.36	539.81	536.50	535.05	530.87	531.05
32.953	559.13	558.55	553.43	550.89	545.80	540.16	536.80	535.29	531.00	531.22
33.950	559.65	559.04	553.92	551.33	546.24	540.54	537.12	535.56	531.18	531.40
34.946	560.14	559.53	554.39	551.83	546.68	540.90	537.42	535.82	531.27	531.58
35.943	560.60	560.05	554.91	552.29	547.12	541.25	537.74	536.12	531.27	531.49
36.939	561.13	560.55	555.41	552.76	547.56	541.63	538.04	536.41	531.27	531.58
37.936	561.62	561.01	555.94	553.22	547.97	542.01	538.33	536.68	531.36	531.58
38.932	562.08	561.47	556.31	553.66	548.38	542.37	538.66	536.92	531.54	531.81
39.646	562.43	561.85	556.63	554.01	548.70	542.60	538.86	537.15	531.76	531.90
39.929	562.54	561.96	556.77	554.13	548.82	542.72	538.95	537.21	531.76	531.94
40.926	563.01	562.43	557.24	554.56	549.23	543.07	539.28	537.51	531.76	531.99
41.922	563.50	562.66	557.47	555.06	550.34	543.42	539.57	537.83	531.72	531.94

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
89	8	TILE INSERT	0.175	.010	.015	7.626E 05	1.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.5	1278	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0228	1.004	3771	2.032E-05	7.562E-08	1.013E 06	1.623E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
41.024	2.423	39.663	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
42.919	563.93	563.32	558.14	555.44	550.07	543.64	539.89	538.10	531.81	532.08

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
89	8	TILE INSERT	0.175	.010	.015	7.626E 05	1.267E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.5	1278	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.9	.0228	1.004	3771	2.032E-05	7.562E-08	1.013E 06	1.623E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
41.024	2.423	39.663	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.396	1
13.163	2
39.769	3

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
90	8	TILE INSERT	0.175	.010	.025	1.686E 06	4.669E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.1	1310	29.55	30.00	30.00	.45	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0512	2.284	3819	4.507E-05	7.679E-08	2.241E 06	2.458E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVY
18.582	2.423	17.222	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	641.63	1.749E-03	.0712	2.175E-03	.0885	2.477E-03	.1008	2.111E-03	.0859
10.33	.200	727.93	3.980E-03	.1619	5.136E-03	.2089	6.008E-03	.2444	4.957E-03	.2016
10.71	.207	749.79	4.647E-03	.1891	6.066E-03	.2467	7.157E-03	.2912	5.844E-03	.2377
11.10	.214	759.81	4.969E-03	.2021	6.521E-03	.2653	7.729E-03	.3144	6.278E-03	.2554
11.48	.222	769.78	5.300E-03	.2156	6.996E-03	.2846	8.328E-03	.3388	6.728E-03	.2737
11.85	.229	778.48	5.600E-03	.2278	7.431E-03	.3023	8.883E-03	.3613	7.141E-03	.2905
12.23	.236	783.69	5.784E-03	.2353	7.700E-03	.3132	9.228E-03	.3754	7.396E-03	.3008
12.60	.244	787.39	5.915E-03	.2406	7.893E-03	.3211	9.478E-03	.3855	7.579E-03	.3083
12.98	.251	790.15	6.017E-03	.2448	8.043E-03	.3272	9.672E-03	.3935	7.721E-03	.3141
13.35	.258	790.50	6.030E-03	.2453	8.063E-03	.3280	9.697E-03	.3945	7.739E-03	.3148
13.72	.265	790.71	6.038E-03	.2456	8.074E-03	.3285	9.712E-03	.3951	7.750E-03	.3153
14.08	.272	793.84	6.154E-03	.2503	8.246E-03	.3354	9.935E-03	.4041	7.912E-03	.3219
14.45	.279	796.45	6.251E-03	.2543	8.391E-03	.3413	1.012E-02	.4118	8.049E-03	.3274
14.81	.286	797.01	6.272E-03	.2551	8.422E-03	.3426	1.016E-02	.4135	8.079E-03	.3286
15.17	.293	796.35	6.247E-03	.2541	8.386E-03	.3411	1.012E-02	.4115	8.044E-03	.3272
15.53	.300	796.44	6.251E-03	.2543	8.391E-03	.3413	1.012E-02	.4118	8.049E-03	.3274
15.89	.307	796.20	6.242E-03	.2539	8.378E-03	.3408	1.011E-02	.4111	8.037E-03	.3269
16.25	.314	795.21	6.205E-03	.2524	8.323E-03	.3386	1.003E-02	.4082	7.985E-03	.3248
16.60	.321	796.34	6.248E-03	.2541	8.386E-03	.3411	1.012E-02	.4115	8.044E-03	.3272
16.96	.328	800.72	6.414E-03	.2609	8.634E-03	.3512	1.044E-02	.4248	8.279E-03	.3368
17.31	.335	802.44	6.480E-03	.2636	8.733E-03	.3553	1.057E-02	.4300	8.372E-03	.3406

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75

VON KARMAN GAS DYNAMICS FACILITY

50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H69

V41H-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	PEK
90	8	TILE INSERT	0.175	.010	.025	1.686E 06	4.669E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.1	1310	29.55	30.00	30.00	.45	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0512	2.284	3819	4.507E-05	7.679E-08	2.241E 06	2.458E-02	84

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.582	2.423	17.222	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	802.15	6.469E-03	.2631	8.717E-03	.3546	1.055E-02	.4292	8.256E-03	.3399
18.01	.348	801.91	6.456E-03	.2626	8.697E-03	.3538	1.052E-02	.4281	8.338E-03	.3392
18.35	.355	802.28	6.474E-03	.2634	8.725E-03	.3549	1.056E-02	.4296	8.364E-03	.3402
18.70	.361	801.39	6.440E-03	.2620	8.673E-03	.3528	1.049E-02	.4268	8.315E-03	.3383
19.04	.368	801.29	6.436E-03	.2618	8.668E-03	.3526	1.049E-02	.4266	8.310E-03	.3381
19.38	.375	803.11	6.506E-03	.2647	8.773E-03	.3569	1.062E-02	.4322	8.409E-03	.3421
19.72	.381	801.61	6.449E-03	.2623	8.686E-03	.3534	1.051E-02	.4275	8.328E-03	.3388
20.06	.388	801.11	6.391E-03	.2600	8.600E-03	.3499	1.040E-02	.4229	8.247E-03	.3355
20.39	.394	801.93	6.461E-03	.2628	8.705E-03	.3541	1.053E-02	.4285	8.346E-03	.3395
20.73	.401	803.84	6.535E-03	.2658	8.816E-03	.3586	1.068E-02	.4345	8.450E-03	.3438
21.06	.407	805.82	6.613E-03	.2690	8.933E-03	.3634	1.083E-02	.4407	8.560E-03	.3482
21.39	.413	807.43	6.676E-03	.2716	9.029E-03	.3673	1.096E-02	.4459	8.650E-03	.3519
21.72	.420	806.06	6.622E-03	.2694	8.947E-03	.3640	1.085E-02	.4415	8.574E-03	.3488
22.05	.426	804.25	6.551E-03	.2665	8.841E-03	.3596	1.071E-02	.4358	8.473E-03	.3447
22.37	.432	804.28	6.553E-03	.2666	8.843E-03	.3597	1.072E-02	.4359	8.475E-03	.3448
22.69	.439	806.67	6.646E-03	.2704	8.984E-03	.3655	1.090E-02	.4435	8.608E-03	.3502
23.02	.445	807.07	6.662E-03	.2710	9.006E-03	.3664	1.093E-02	.4447	8.631E-03	.3511
23.34	.451	805.19	6.588E-03	.2680	8.896E-03	.3619	1.079E-02	.4387	8.526E-03	.3468
23.65	.457	805.38	6.635E-03	.2699	8.968E-03	.3648	1.088E-02	.4426	8.593E-03	.3495
23.97	.463	806.53	6.641E-03	.2702	8.976E-03	.3651	1.089E-02	.4430	8.601E-03	.3499
24.29	.469	804.22	6.551E-03	.2665	8.840E-03	.3596	1.071E-02	.4358	8.473E-03	.3447
24.60	.475	801.64	6.451E-03	.2624	8.690E-03	.3535	1.051E-02	.4277	8.331E-03	.3389

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
90	8	TILE INSERT	0.175	.010	.025	1.686E 06	4.669E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.1	1310	29.55	30.00	30.00	.45	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0512	2.284	3819	4.507E-05	7.679E-08	2.241E 06	2.458E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.582	2.423	17.222	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	803.40	6.520E-03	.2652	8.793E-03	.3577	1.065E-02	.4332	8.428E-03	.3429
25.22	.487	803.41	6.520E-03	.2652	8.794E-03	.3577	1.065E-02	.4332	8.429E-03	.3429
25.53	.493	80[illegible].39	6.404E-03	.2605	8.619E-03	.3506	1.042E-02	.4239	8.264E-03	.3362
25.83	.499	796.64	6.262E-03	.2547	8.407E-03	.3420	1.014E-02	.4126	8.064E-03	.3280
26.14	.505	745.32	4.511E-03	.1835	5.873E-03	.2389	6.917E-03	.2814	5.661E-03	.2303

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
00	8	TILE INSERT	0.175	.010	.025	1.686E 06	4.669E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.1	1310	29.55	30.00	30.00	.45	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0512	2.284	3819	4.507E-05	7.679E-08	2.241E 06	2.458E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.582	2.423	17.222	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.063	545.45	544.66	541.99	541.87	541.52	540.96	540.55	540.49	530.15	530.78
2.059	549.46	549.03	544.84	544.02	542.84	541.69	541.08	540.81	530.73	531.45
3.056	552.41	551.98	547.12	545.81	543.46	542.37	541.58	541.17	531.22	532.08
4.052	554.83	554.42	549.11	547.42	544.98	543.02	542.02	541.55	531.85	532.88
5.049	556.98	556.52	550.90	548.91	545.98	543.61	542.46	541.87	532.66	533.55
6.046	558.93	558.43	552.53	550.31	546.95	544.19	542.87	542.22	533.42	534.40
7.042	560.70	560.17	554.05	551.66	547.86	544.75	543.31	542.61	534.13	535.03
8.039	562.37	561.80	555.53	552.94	548.76	545.31	543.69	542.96	534.63	535.70
9.035	563.94	563.33	556.90	554.16	549.67	545.89	544.10	543.28	535.30	536.37
10.032	565.38	564.77	558.20	555.33	550.55	546.42	544.49	543.61	536.10	537.17
11.028	566.82	566.16	559.45	556.49	551.42	546.98	544.90	543.93	536.90	538.02
12.025	568.15	567.46	560.67	557.59	552.27	547.56	545.31	544.28	537.57	538.60
13.022	569.41	568.72	561.85	558.67	553.11	548.12	545.69	544.66	538.15	539.22
14.018	570.65	569.93	563.01	559.71	553.99	548.70	546.10	544.98	538.78	539.94
15.015	571.83	571.11	564.08	560.75	554.80	549.26	546.51	545.31	539.53	540.60
16.011	572.97	572.26	565.15	561.71	555.62	549.82	546.95	545.66	540.29	541.36
17.008	574.09	573.35	566.19	562.69	556.43	550.40	547.36	546.04	540.87	542.16
17.204	574.29	573.58	566.42	562.90	556.58	550.52	547.45	546.10	541.14	542.29
18.004	575.18	574.41	567.23	563.65	557.22	550.98	547.80	546.39	541.49	542.65
19.001	576.21	575.41	568.20	564.60	558.00	551.57	548.21	546.74	542.21	543.32
19.998	577.21	576.44	569.15	565.49	558.75	552.12	548.65	547.10	542.83	543.98

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
90	8	TILE INSERT	0.175	.010	.025	1.686E 06	4.669E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.1	1310	29.55	30.00	30.00	.45	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0512	2.284	3819	4.507E-05	7.679E-08	2.241E 06	2.458E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.582	2.423	17.222	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
90	8	TILE INSERT	0.175	.010	.025	1.686E 06	4.669E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	492.1	1310	29.55	30.00	30.00	.45	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0512	2.284	3819	4.507E-05	7.679E-08	2.241E 06	2.458E-02	84

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.582	2.423	17.222	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.912	1
10.434	2
17.200	3

NASA/RI OHGO
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
91	8	TILE INSERT	0.175	.010	.025	1.685E 06	4.664E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.2	1313	39.34	40.01	30.00	-9.34	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0514	2.289	3823	4.507E-05	7.696E-08	2.239E 06	2.462E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.974	2.441	12.604	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
8.15	.158	581.38	8.469E-04	.0344	1.032E-03	.0419	1.159E-03	.0471	9.605E-04	.0390
8.60	.166	592.81	1.083E-03	.0440	1.325E-03	.0538	1.491E-03	.0605	1.231E-03	.0500
9.05	.175	605.27	1.353E-03	.0550	1.661E-03	.0675	1.875E-03	.0761	1.541E-03	.0626
9.49	.183	664.77	2.839E-03	.1153	3.560E-03	.1446	4.077E-03	.1656	3.276E-03	.1331
9.93	.192	754.28	5.794E-03	.2354	7.574E-03	.3076	8.948E-03	.3635	6.856E-03	.2785
10.37	.200	739.09	5.237E-03	.2127	6.790E-03	.2758	7.972E-03	.3238	6.167E-03	.2505
10.81	.209	789.18	7.191E-03	.2921	9.596E-03	.3898	1.152E-02	.4680	8.614E-03	.3499
11.24	.217	794.48	7.420E-03	.3014	9.936E-03	.4036	1.196E-02	.4860	8.907E-03	.3618
11.67	.225	795.94	7.617E-03	.3094	1.023E-02	.4155	1.235E-02	.5015	9.159E-03	.3720
12.10	.234	806.18	7.944E-03	.3227	1.072E-02	.4355	1.299E-02	.5277	9.580E-03	.3891
12.52	.242	810.93	8.164E-03	.3316	1.105E-02	.4490	1.343E-02	.5456	9.864E-03	.4007
12.94	.250	812.79	8.249E-03	.3351	1.118E-02	.4543	1.361E-02	.5526	9.975E-03	.4052
13.36	.258	814.31	8.319E-03	.3379	1.129E-02	.4586	1.375E-02	.5584	1.007E-02	.4089
13.78	.266	813.03	8.261E-03	.3355	1.120E-02	.4550	1.363E-02	.5536	9.990E-03	.4058
14.19	.274	814.57	8.332E-03	.3384	1.131E-02	.4595	1.377E-02	.5595	1.008E-02	.4096
14.60	.282	819.65	8.569E-03	.3480	1.168E-02	.4742	1.426E-02	.5793	1.039E-02	.4221
15.01	.290	821.21	8.643E-03	.3510	1.179E-02	.4789	1.441E-02	.5855	1.049E-02	.4260
15.41	.298	819.43	8.559E-03	.3477	1.166E-02	.4736	1.424E-02	.5785	1.038E-02	.4216
15.81	.306	819.68	8.571E-03	.3481	1.168E-02	.4744	1.427E-02	.5794	1.039E-02	.4222
16.21	.313	820.72	8.620E-03	.3501	1.175E-02	.4775	1.437E-02	.5836	1.046E-02	.4248
16.61	.321	819.73	8.574E-03	.3483	1.168E-02	.4746	1.427E-02	.5797	1.040E-02	.4224

C-

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V41B-E9A

AEDC (AHO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
91	8	TILE INSERT	0.175	.010	.025	1.685E 06	4.664E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.2	1313	39.34	40.01	30.00	-9.34	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0514	2.289	3823	4.507E-05	7.696E-08	2.239E 06	2.462E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.974	2.441	12.604	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.00	.329	822.45	8.702E-03	.3535	1.188E-02	.4826	1.454E-02	.5905	1.057E-02	.4292
17.39	.336	825.12	8.829E-03	.3586	1.208E-02	.4906	1.480E-02	.6013	1.073E-02	.4359
17.77	.344	824.51	8.800E-03	.3574	1.203E-02	.4888	1.474E-02	.5989	1.069E-02	.4344
18.16	.351	825.81	8.862E-03	.3600	1.213E-02	.4927	1.487E-02	.6042	1.078E-02	.4377
18.54	.358	825.30	8.838E-03	.3590	1.209E-02	.4912	1.482E-02	.6021	1.074E-02	.4364
18.92	.366	823.71	8.763E-03	.3559	1.198E-02	.4865	1.467E-02	.5957	1.065E-02	.4324
19.29	.373	824.72	8.811E-03	.3579	1.205E-02	.4895	1.477E-02	.5998	1.071E-02	.4350
19.66	.380	824.65	8.808E-03	.3577	1.205E-02	.4893	1.476E-02	.5995	1.070E-02	.4348
20.03	.387	822.60	8.711E-03	.3538	1.190E-02	.4832	1.456E-02	.5912	1.058E-02	.4296
20.40	.394	824.60	8.806E-03	.3577	1.204E-02	.4892	1.476E-02	.5993	1.070E-02	.4347
20.76	.401	826.78	8.910E-03	.3619	1.221E-02	.4958	1.498E-02	.6083	1.084E-02	.4403
21.12	.408	827.59	8.949E-03	.3635	1.227E-02	.4982	1.506E-02	.6116	1.089E-02	.4423
21.48	.415	828.88	9.007E-03	.3659	1.236E-02	.5020	1.518E-02	.6167	1.097E-02	.4455
21.84	.422	827.57	8.948E-03	.3635	1.227E-02	.4982	1.506E-02	.6116	1.089E-02	.4423
22.19	.429	825.50	8.850E-03	.3595	1.211E-02	.4919	1.485E-02	.6031	1.076E-02	.4370
22.54	.436	826.51	8.896E-03	.3614	1.219E-02	.4950	1.495E-02	.6072	1.082E-02	.4396
22.88	.442	828.78	9.007E-03	.3658	1.236E-02	.5019	1.518E-02	.6166	1.097E-02	.4455
23.23	.449	827.34	8.938E-03	.3630	1.225E-02	.4975	1.503E-02	.6107	1.088E-02	.4418
23.57	.456	825.91	8.870E-03	.3603	1.214E-02	.4932	1.489E-02	.6048	1.079E-02	.4381
23.91	.462	828.06	8.973E-03	.3645	1.230E-02	.4998	1.511E-02	.6137	1.092E-02	.4436
24.24	.469	826.44	8.896E-03	.3613	1.218E-02	.4949	1.494E-02	.6070	1.082E-02	.4395
24.57	.475	822.95	8.730E-03	.3546	1.193E-02	.4844	1.460E-02	.5929	1.060E-02	.4307

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V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
91	8	TILE INSERT	0.175	.010	.025	1.685E 06	4.664E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.2	1313	39.34	40.01	30.00	-9.34	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0514	2.289	3823	4.507E-05	7.696E-08	2.239E 06	2.462E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.974	2.441	12.604	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.481	824.14	8.787E-03	.3569	1.201E-02	.4879	1.471E-02	.5977	1.068E-02	.4337
25.23	.488	827.49	8.947E-03	.3634	1.226E-02	.4981	1.505E-02	.6114	1.089E-02	.4422
25.55	.494	824.28	8.794E-03	.3572	1.202E-02	.4884	1.473E-02	.5983	1.069E-02	.4341
25.87	.500	820.16	8.597E-03	.3492	1.172E-02	.4759	1.432E-02	.5815	1.043E-02	.4235

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H69
V41H-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
01	8	TILE INSERT	0.175	.010	.025	1.685E 06	4.664E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.2	1313	39.34	40.01	30.00	-9.34	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0514	2.289	3823	4.507E-05	7.696E-08	2.239E 06	2.462E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.974	2.441	12.604	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.071	542.48	542.69	540.37	540.37	540.37	539.57	539.28	539.25	529.30	532.43
2.047	546.39	547.21	543.42	542.84	541.75	540.54	539.89	539.60	531.00	534.63
3.064	549.23	550.13	545.80	544.80	543.07	541.37	540.54	540.10	532.75	536.81
4.060	551.56	552.53	547.79	546.53	544.25	542.16	541.10	540.60	534.54	538.91
5.057	553.60	554.56	549.61	548.09	545.36	542.87	541.69	541.10	536.32	540.83
6.054	555.47	556.46	551.27	549.55	546.42	543.57	542.19	541.54	538.20	542.92
7.050	557.24	558.17	552.82	550.92	547.44	544.25	542.69	541.98	540.11	544.74
8.047	558.89	559.79	554.27	552.23	548.44	544.92	543.19	542.40	542.16	546.69
9.043	560.43	561.33	555.64	553.49	549.40	545.57	543.69	542.87	544.07	548.65
10.040	561.91	562.77	557.04	554.71	550.34	546.21	544.19	543.31	545.90	550.33
11.036	563.30	564.13	558.28	555.90	551.27	546.86	544.66	543.72	547.85	552.19
12.033	564.65	565.46	559.53	557.04	552.20	547.47	545.13	544.10	549.89	554.05
12.586	565.37	566.18	560.20	557.65	552.70	547.85	545.39	544.39	550.82	554.89
13.030	565.95	566.76	560.72	558.14	553.11	548.11	545.62	544.54	551.92	555.95
14.026	567.22	567.97	561.91	559.24	553.98	548.73	546.09	544.98	553.78	557.62
15.023	568.40	569.15	563.06	560.31	554.68	549.40	546.59	545.42	555.59	559.34
16.019	569.58	570.33	564.16	561.33	555.76	550.04	547.06	545.86	557.36	561.02

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
91	8	TILE INSERT	0.175	.010	.025	1.685E 06	4.664E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.2	1313	39.34	40.01	30.00	-9.34	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0514	2.289	3823	4.507E-05	7.696E-08	2.239E 06	2.462E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.974	2.441	12.604	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.271	1
8.856	2
12.714	3

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
92	8	TILE INSERT	0.175	.010	.025	1.876E 06	5.193E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.7	1322	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	G - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0575	2.569	3836	5.023E-05	7.730E-08	2.493E 06	2.611E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.944	2.441	13.573	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.108	573.66	6.939E-04	.0266	8.427E-04	.0323	9.440E-04	.0362	8.209E-04	.0314
9.17	.177	571.05	6.457E-04	.0247	7.836E-04	.0300	8.774E-04	.0336	7.634E-04	.0292
9.95	.192	678.15	3.116E-03	.1193	3.921E-03	.1502	4.503E-03	.1725	3.800E-03	.1455
10.33	.200	739.75	5.042E-03	.1931	6.524E-03	.2498	7.647E-03	.2928	6.294E-03	.2411
10.71	.207	759.21	5.690E-03	.2179	7.433E-03	.2847	8.777E-03	.3361	7.161E-03	.2742
11.10	.214	765.51	5.957E-03	.2281	7.813E-03	.2992	9.255E-03	.3544	7.523E-03	.2881
11.48	.222	774.06	6.279E-03	.2404	8.275E-03	.3169	9.840E-03	.3768	7.961E-03	.3049
11.85	.229	780.19	6.515E-03	.2495	8.618E-03	.3300	1.028E-02	.3936	8.287E-03	.3173
12.23	.236	783.07	6.629E-03	.2538	8.783E-03	.3364	1.049E-02	.4016	8.443E-03	.3233
12.60	.244	786.52	6.766E-03	.2591	8.984E-03	.3441	1.075E-02	.4115	8.633E-03	.3306
12.98	.251	789.05	6.868E-03	.2630	9.133E-03	.3498	1.094E-02	.4189	8.775E-03	.3360
13.35	.258	788.79	6.858E-03	.2626	9.118E-03	.3492	1.092E-02	.4181	8.760E-03	.3355
13.72	.265	789.03	6.867E-03	.2630	9.133E-03	.3497	1.094E-02	.4188	8.774E-03	.3360
14.08	.272	791.82	6.981E-03	.2673	9.300E-03	.3562	1.115E-02	.4271	8.932E-03	.3421
14.45	.279	794.68	7.099E-03	.2719	9.474E-03	.3628	1.138E-02	.4357	9.097E-03	.3484
14.81	.286	795.53	7.133E-03	.2732	9.524E-03	.3647	1.144E-02	.4382	9.144E-03	.3502
15.17	.293	794.02	7.072E-03	.2708	9.434E-03	.3613	1.133E-02	.4337	9.059E-03	.3469
15.53	.300	794.06	7.073E-03	.2709	9.436E-03	.3614	1.133E-02	.4339	9.061E-03	.3470
15.89	.307	794.57	7.095E-03	.2717	9.468E-03	.3626	1.137E-02	.4354	9.091E-03	.3482
16.25	.314	793.56	7.053E-03	.2701	9.407E-03	.3602	1.129E-02	.4324	9.033E-03	.3459
16.60	.321	794.46	7.091E-03	.2715	9.462E-03	.3623	1.136E-02	.4351	9.085E-03	.3479

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
92	8	TILE INSERT	0.175	.010	.025	1.876E 06	5.193E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.7	1322	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0575	2.569	3836	5.023E-05	7.730E-08	2.493E 06	2.611E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.944	2.441	13.573	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
16.96	.328	795.70	7.267E-03	.2783	9.724E-03	.3724	1.170E-02	.4481	9.333E-03	.3574
17.31	.335	800.04	7.325E-03	.2805	9.810E-03	.3757	1.181E-02	.4524	9.414E-03	.3605
17.66	.341	800.33	7.337E-03	.2810	9.827E-03	.3763	1.184E-02	.4533	9.430E-03	.3611
18.01	.348	799.97	7.321E-03	.2804	9.804E-03	.3755	1.181E-02	.4521	9.409E-03	.3603
18.35	.355	800.80	7.357E-03	.2817	9.857E-03	.3775	1.187E-02	.4548	9.459E-03	.3622
18.70	.361	800.15	7.329E-03	.2807	9.816E-03	.3759	1.182E-02	.4527	9.420E-03	.3607
19.04	.368	801.29	7.378E-03	.2825	9.889E-03	.3787	1.192E-02	.4563	9.488E-03	.3634
19.38	.375	801.44	7.384E-03	.2828	9.898E-03	.3791	1.193E-02	.4568	9.497E-03	.3637
19.72	.381	799.54	7.304E-03	.2797	9.778E-03	.3745	1.177E-02	.4508	9.384E-03	.3594
20.06	.388	800.07	7.327E-03	.2806	9.812E-03	.3758	1.182E-02	.4525	9.416E-03	.3606
20.39	.394	802.55	7.432E-03	.2846	9.970E-03	.3818	1.202E-02	.4604	9.565E-03	.3663
20.73	.401	803.92	7.491E-03	.2869	1.006E-02	.3852	1.214E-02	.4648	9.648E-03	.3695
21.06	.407	805.23	7.547E-03	.2890	1.014E-02	.3884	1.225E-02	.4690	9.727E-03	.3725
21.39	.413	807.15	7.632E-03	.2923	1.027E-02	.3932	1.241E-02	.4754	9.847E-03	.3771
21.72	.420	804.88	7.533E-03	.2885	1.012E-02	.3876	1.222E-02	.4679	9.707E-03	.3717
22.05	.426	803.51	7.474E-03	.2862	1.003E-02	.3842	1.210E-02	.4635	9.624E-03	.3686
22.37	.432	804.13	7.501E-03	.2873	1.007E-02	.3857	1.216E-02	.4655	9.662E-03	.3700
22.69	.439	806.88	7.621E-03	.2918	1.025E-02	.3924	1.239E-02	.4745	9.831E-03	.3765
23.02	.445	808.43	7.601E-03	.2911	1.022E-02	.3915	1.235E-02	.4730	9.803E-03	.3754
23.34	.451	804.02	7.497E-03	.2871	1.007E-02	.3855	1.215E-02	.4652	9.656E-03	.3698
23.65	.457	805.44	7.559E-03	.2895	1.016E-02	.3890	1.227E-02	.4698	9.743E-03	.3731
23.97	.463	805.99	7.582E-03	.2904	1.019E-02	.3904	1.232E-02	.4716	9.777E-03	.3744

NASA/RI 0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
92	8	TILE INSERT	0.175	.010	.025	1.876E 06	5.193E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.7	1322	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0575	2.569	3836	5.023E-05	7.730E-08	2.493E 06	2.611E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.944	2.441	13.573	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.29	.469	803.53	7.477E-03	.2863	1.004E-02	.3843	1.211E-02	.4637	9.627E-03	.3697
24.60	.475	801.72	7.399E-03	.2834	9.920E-03	.3799	1.196E-02	.4579	9.518E-03	.3645
24.91	.482	804.82	7.532E-03	.2885	1.012E-02	.3875	1.222E-02	.4678	9.706E-03	.3717
25.22	.487	803.06	7.457E-03	.2856	1.001E-02	.3832	1.207E-02	.4622	9.599E-03	.3676
25.53	.493	800.72	7.357E-03	.2817	9.857E-03	.3775	1.187E-02	.4547	9.459E-03	.3622
25.83	.499	794.99	7.117E-03	.2726	9.500E-03	.3638	1.141E-02	.4370	9.122E-03	.3493
26.14	.505	689.76	3.458E-03	.1324	4.372E-03	.1674	5.038E-03	.1929	4.233E-03	.1621

NASA/RI OHAO
V41H-EVA

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
92	8	TILE INSERT	0.175	.010	.025	1.876E 06	5.193E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.7	1322	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0575	2.569	3836	5.023E-05	7.730E-08	2.493E 06	2.611E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.944	2.441	13.573	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.071	530.88	530.43	527.64	527.46	527.37	526.65	526.36	526.36	530.55	531.31
2.067	535.29	535.14	530.73	529.75	528.62	527.46	526.89	526.65	531.45	532.25
3.064	538.48	538.39	533.22	531.74	529.84	528.17	527.43	527.07	532.25	533.10
4.060	541.10	540.98	535.38	533.51	530.97	528.89	527.96	527.49	532.93	533.95
5.057	543.37	543.25	537.30	535.14	531.88	529.54	528.44	527.90	533.69	534.76
6.054	545.48	545.27	539.07	536.65	533.07	530.16	528.89	528.26	534.49	535.65
7.050	547.35	547.18	540.75	538.10	534.08	530.79	529.33	528.65	535.43	536.59
8.047	549.14	548.96	542.31	539.51	535.05	531.41	529.78	529.00	536.23	537.53
9.043	550.80	550.63	543.84	540.84	536.06	532.03	530.22	529.42	536.90	538.24
10.040	552.41	552.20	545.27	542.13	537.03	532.66	530.64	529.78	537.75	539.00
11.036	553.92	553.75	546.65	543.39	537.98	533.25	531.08	530.13	538.64	539.80
12.033	555.41	555.20	548.00	544.60	538.92	533.87	531.53	530.49	539.58	540.78
13.030	556.80	556.60	549.28	545.80	539.86	534.49	531.97	530.88	540.38	541.54
13.555	557.53	557.30	549.99	546.42	540.34	534.82	532.21	531.11	540.60	541.98
14.026	558.17	557.94	550.57	546.97	540.81	535.11	532.45	531.32	541.00	542.34
15.023	559.47	559.24	551.77	548.09	541.72	535.79	532.89	531.68	541.76	543.18
16.019	560.72	560.49	552.96	549.26	542.25	536.41	533.37	532.00	542.70	543.98

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
92	8	TILE INSERT	0.175	.010	.025	1.876E 06	5.193E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.7	1322	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0575	2.569	3836	5.023E-05	7.730E-08	2.493E 06	2.611E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.944	2.441	13.573	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.303	1
10.140	2
13.574	3

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
93	8	TILE INSERT	0.175	.010	.025	1.481E 06	4.099E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.2	1300	29.62	30.01	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0445	1.982	3805	3.541E-05	7.622E-08	1.967E 06	2.287E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.603	2.441	23.233	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	652.81	1.883E-03	.0823	2.356E-03	.1030	2.695E-03	.1178	2.285E-03	.0999
10.33	.200	716.75	3.356E-03	.1467	4.319E-03	.1888	5.041E-03	.2204	4.170E-03	.1823
10.71	.207	737.10	3.888E-03	.1700	5.055E-03	.2210	5.948E-03	.2600	4.873E-03	.2131
11.10	.214	747.14	4.163E-03	.1820	5.442E-03	.2379	6.430E-03	.2811	5.242E-03	.2292
11.48	.222	759.52	4.515E-03	.1974	5.944E-03	.2599	7.061E-03	.3087	5.719E-03	.2500
11.85	.229	770.38	4.835E-03	.2114	6.408E-03	.2801	7.651E-03	.3345	6.159E-03	.2692
12.23	.236	777.84	5.064E-03	.2214	6.741E-03	.2947	8.080E-03	.3532	6.474E-03	.2831
12.60	.244	783.01	5.225E-03	.2284	6.980E-03	.3051	8.387E-03	.3667	6.700E-03	.2929
12.98	.251	787.42	5.366E-03	.2346	7.188E-03	.3143	8.659E-03	.3786	6.897E-03	.3015
13.35	.258	788.24	5.393E-03	.2358	7.228E-03	.3160	8.710E-03	.3808	6.934E-03	.3032
13.72	.265	789.28	5.426E-03	.2372	7.277E-03	.3181	8.774E-03	.3836	6.981E-03	.3052
14.08	.272	793.52	5.532E-03	.2419	7.436E-03	.3251	8.982E-03	.3927	7.131E-03	.3118
14.45	.279	795.66	5.636E-03	.2464	7.592E-03	.3319	9.187E-03	.4016	7.278E-03	.3182
14.81	.286	796.46	5.663E-03	.2476	7.633E-03	.3337	9.239E-03	.4039	7.316E-03	.3199
15.17	.293	795.49	5.631E-03	.2462	7.584E-03	.3316	9.176E-03	.4011	7.270E-03	.3179
15.53	.300	795.55	5.633E-03	.2463	7.587E-03	.3317	9.179E-03	.4013	7.273E-03	.3180
15.89	.307	796.04	5.649E-03	.2470	7.612E-03	.3328	9.212E-03	.4027	7.296E-03	.3190
16.25	.314	794.85	5.610E-03	.2453	7.552E-03	.3302	9.134E-03	.3993	7.241E-03	.3166
16.60	.321	795.84	5.643E-03	.2467	7.602E-03	.3323	9.199E-03	.4022	7.287E-03	.3186
16.96	.328	800.26	5.792E-03	.2532	7.827E-03	.3422	9.495E-03	.4151	7.499E-03	.3278
17.31	.335	802.35	5.863E-03	.2563	7.935E-03	.3469	9.638E-03	.4214	7.601E-03	.3323

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
93	8	TILE INSERT	0.175	.010	.025	1.481E 06	4.099E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.2	1300	29.62	30.01	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	W - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0445	1.982	3805	3.941E-05	7.622E-08	1.967E 06	2.287E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.603	2.441	23.233	1000

X (IN)	X/L	TW. (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	802.43	5.866E-03	.2565	7.939E-03	.3471	9.643E-03	.4216	7.605E-03	.3325
18.01	.348	801.72	5.841E-03	.2554	7.902E-03	.3455	9.594E-03	.4195	7.570E-03	.3310
18.35	.355	801.69	5.841E-03	.2553	7.901E-03	.3454	9.593E-03	.4194	7.569E-03	.3309
18.70	.361	801.39	5.830E-03	.2549	7.885E-03	.3447	9.572E-03	.4185	7.554E-03	.3303
19.04	.368	802.33	5.863E-03	.2563	7.934E-03	.3469	9.637E-03	.4213	7.600E-03	.3323
19.38	.375	802.95	5.884E-03	.2573	7.967E-03	.3483	9.680E-03	.4232	7.631E-03	.3336
19.72	.381	801.53	5.835E-03	.2551	7.893E-03	.3451	9.582E-03	.4189	7.561E-03	.3306
20.06	.388	801.74	5.843E-03	.2554	7.904E-03	.3455	9.596E-03	.4195	7.571E-03	.3310
20.39	.394	803.61	5.907E-03	.2583	8.002E-03	.3498	9.726E-03	.4252	7.664E-03	.3350
20.73	.401	805.30	5.965E-03	.2608	8.091E-03	.3537	9.844E-03	.4304	7.747E-03	.3387
21.06	.407	806.93	6.023E-03	.2633	8.178E-03	.3575	9.959E-03	.4354	7.829E-03	.3423
21.39	.413	809.20	6.103E-03	.2668	8.300E-03	.3629	1.012E-02	.4425	7.944E-03	.3473
21.72	.420	807.40	6.039E-03	.2640	8.203E-03	.3586	9.993E-03	.4369	7.853E-03	.3433
22.05	.426	805.60	5.977E-03	.2613	8.107E-03	.3544	9.866E-03	.4313	7.763E-03	.3394
22.37	.432	805.94	5.988E-03	.2618	8.125E-03	.3552	9.890E-03	.4324	7.780E-03	.3401
22.69	.439	808.39	6.075E-03	.2656	8.257E-03	.3610	1.006E-02	.4400	7.904E-03	.3455
23.02	.445	807.75	6.052E-03	.2646	8.222E-03	.3595	1.002E-02	.4380	7.871E-03	.3441
23.34	.451	805.80	5.984E-03	.2616	8.118E-03	.3549	9.880E-03	.4320	7.773E-03	.3398
23.65	.457	807.34	6.038E-03	.2640	8.201E-03	.3585	9.990E-03	.4368	7.851E-03	.3432
23.97	.463	807.82	6.055E-03	.2647	8.227E-03	.3597	1.002E-02	.4383	7.875E-03	.3443
24.29	.469	805.26	5.965E-03	.2608	8.090E-03	.3537	9.843E-03	.4303	7.747E-03	.3387
24.60	.475	803.66	5.910E-03	.2584	8.006E-03	.3500	9.731E-03	.4254	7.668E-03	.3352

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
93	8	TILE INSERT	0.175	.010	.025	1.481E 06	4.099E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.2	1300	29.62	30.01	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	G - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0445	1.982	3805	3.941E-05	7.622E-08	1.967E 06	2.287E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.603	2.441	23.233	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	805.98	5.990E-03	.2619	8.128E-03	.3554	9.894E-03	.4325	7.783E-03	.3403
25.22	.487	804.25	5.930E-03	.2593	8.037E-03	.3514	9.772E-03	.4272	7.697E-03	.3365
25.53	.493	802.30	5.863E-03	.2563	7.935E-03	.3469	9.637E-03	.4213	7.601E-03	.3323
25.83	.499	796.91	5.681E-03	.2484	7.659E-03	.3348	9.273E-03	.4054	7.341E-03	.3209
26.14	.505	721.18	3.471E-03	.1518	4.477E-03	.1957	5.234E-03	.2288	4.321E-03	.1889

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
03	8	TILE INSERT	0.175	.010	.025	1.481E 06	4.099E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.2	1300	29.62	30.01	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0445	1.982	3805	3.941E-05	7.622E-08	1.967E 06	2.287E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.603	2.441	23.233	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.071	534.23	533.69	531.20	531.02	530.73	530.13	529.78	529.69	528.76	529.30
2.067	538.01	537.71	533.84	533.01	531.94	530.85	530.25	530.02	529.21	529.75
3.064	540.72	540.48	535.97	534.70	532.98	531.50	530.70	530.34	529.61	530.37
4.060	543.01	542.72	537.83	536.21	533.93	532.06	531.14	530.67	530.24	531.05
5.057	545.01	544.72	539.48	537.59	534.88	532.63	531.56	530.99	530.91	531.76
6.054	546.80	546.47	541.01	538.89	535.73	533.16	531.91	531.35	531.40	532.21
7.050	548.44	548.11	542.45	540.16	536.62	533.69	532.30	531.68	531.85	532.70
8.047	549.99	549.64	543.81	541.34	537.48	534.23	532.69	531.97	532.43	533.28
9.043	551.45	551.04	545.10	542.48	538.30	534.73	533.07	532.27	533.10	534.04
10.040	552.82	552.41	546.32	543.60	539.13	535.26	533.43	532.60	533.64	534.67
11.036	554.13	553.69	547.50	544.66	539.95	535.76	533.81	532.95	534.22	535.16
12.033	555.35	554.91	548.67	545.71	540.75	536.32	534.17	533.28	534.71	535.70
13.030	556.54	556.11	549.72	546.71	541.54	536.86	534.58	533.57	535.25	536.14
14.026	557.70	557.24	550.80	547.70	542.34	537.36	534.94	533.87	535.92	536.86
15.023	558.84	558.31	551.83	548.64	543.13	537.89	535.32	534.23	536.59	537.48
16.019	559.88	559.39	552.85	549.58	543.89	538.42	535.73	534.58	537.04	538.11
17.016	560.92	560.40	553.81	550.48	544.66	538.98	536.12	534.91	537.53	538.51
18.012	561.91	561.42	554.77	551.39	545.39	539.51	536.53	535.23	538.06	539.09
19.009	562.89	562.34	555.70	552.26	546.12	540.04	536.92	535.56	538.73	539.67
20.006	563.84	563.32	556.60	553.11	546.86	540.57	537.33	535.88	539.36	540.29
21.002	564.77	564.22	557.47	553.95	547.59	541.13	537.74	536.24	539.80	540.92

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
93	8	TILE INSERT	0.175	.010	.025	1.481E 06	4.099E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.2	1300	29.62	30.01	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0445	1.982	3805	3.941E-05	7.622E-08	1.967E 06	2.287E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.603	2.441	23.233	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.499	565.69	565.11	558.37	554.77	548.29	541.69	538.18	536.42	540.25	541.27
22.445	566.56	565.98	559.18	555.58	548.99	542.22	538.60	536.94	540.83	541.89
23.215	566.76	566.14	559.36	555.76	549.17	542.34	538.66	537.03	540.92	542.03
23.992	567.42	566.89	560.02	556.37	549.69	542.75	539.01	537.27	541.45	542.47
24.988	568.29	567.71	560.84	557.15	550.39	543.28	539.42	537.65	542.07	543.10
25.985	569.09	568.52	561.62	557.91	551.07	543.84	539.84	538.04	542.56	543.58
26.982	569.90	569.29	562.40	558.69	551.80	544.36	540.28	538.42	542.96	544.07

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
93	8	TILE INSERT	0.175	.010	.025	1.481E 06	4.099E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.2	1300	29.62	30.01	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.7	.0445	1.982	3805	3.541E-05	7.622E-08	1.967E 06	2.287E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.603	2.441	23.233	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.217	1
10.721	2
23.270	3

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
94	8	TILE INSERT	0.175	.010	.025	1.486E 06	4.115E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.5	1300	39.41	40.00	30.00	-9.41	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0446	1.989	3803	3.956E-05	7.617E-08	1.975E 06	2.291E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.179	2.446	15.806	1000

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
8.15	.158	577.11	7.089E-04	.0309	8.644E-04	.0377	9.709E-04	.0424	8.043E-04	.0351
8.60	.166	593.42	9.507E-04	.0415	1.164E-03	.0508	1.311E-03	.0572	1.081E-03	.0472
9.05	.175	606.33	1.270E-03	.0554	1.563E-03	.0682	1.767E-03	.0771	1.449E-03	.0633
9.49	.183	714.65	4.030E-03	.1759	5.181E-03	.2262	6.045E-03	.2639	4.722E-03	.2062
9.93	.192	701.24	3.627E-03	.1583	4.633E-03	.2023	5.360E-03	.2349	4.234E-03	.1848
10.37	.200	743.17	4.842E-03	.2114	6.308E-03	.2754	7.432E-03	.3245	5.718E-03	.2497
10.81	.209	776.49	6.115E-03	.2670	8.136E-03	.3552	9.747E-03	.4255	7.313E-03	.3193
11.24	.217	784.64	6.429E-03	.2807	8.600E-03	.3754	1.035E-02	.4517	7.713E-03	.3367
11.67	.226	789.59	6.623E-03	.2891	8.888E-03	.3880	1.072E-02	.4681	7.961E-03	.3476
12.10	.234	797.31	6.933E-03	.3027	9.353E-03	.4083	1.133E-02	.4947	8.359E-03	.3649
12.52	.242	801.81	7.118E-03	.3108	9.633E-03	.4206	1.170E-02	.5108	8.599E-03	.3754
12.94	.250	803.85	7.203E-03	.3145	9.763E-03	.4262	1.187E-02	.5183	8.709E-03	.3802
13.36	.258	805.45	7.271E-03	.3174	9.866E-03	.4307	1.201E-02	.5243	8.797E-03	.3840
13.78	.266	804.69	7.239E-03	.3160	9.817E-03	.4286	1.194E-02	.5215	8.756E-03	.3823
14.19	.274	807.61	7.363E-03	.3215	1.001E-02	.4369	1.220E-02	.5324	8.917E-03	.3893
14.60	.282	812.26	7.561E-03	.3301	1.031E-02	.4502	1.250E-02	.5502	9.175E 03	.4006
15.01	.290	812.99	7.593E-03	.3315	1.036E-02	.4523	1.267E-02	.5531	9.216E-03	.4024
15.41	.298	811.67	7.536E-03	.3290	1.027E-02	.4485	1.255E-02	.5480	9.143E-03	.3991
15.81	.306	812.55	7.574E-03	.3307	1.033E-02	.4510	1.263E-02	.5514	9.192E-03	.4013
16.21	.313	813.24	7.604E-03	.3320	1.038E-02	.4530	1.269E-02	.5541	9.231E-03	.4030
16.61	.321	812.31	7.564E-03	.3302	1.032E-02	.4504	1.261E-02	.5505	9.179E-03	.4007

NASA/GI OH69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
94	8	TILE INSERT	0.175	.010	.025	1.486E 06	4.115E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.5	1300	39.41	40.00	30.00	-9.41	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0446	1.989	3803	3.956E-05	7.617E-08	1.975E 06	2.291E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.179	2.446	15.906	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.00	.329	R16.37	7.738E-03	.3378	1.059E-02	.4621	1.297E-02	.5663	9.407E-03	.4107
17.39	.336	R19.13	7.814E-03	.3412	1.070E-02	.4673	1.313E-02	.5733	9.507E-03	.4151
17.77	.344	R17.47	7.786E-03	.3399	1.066E-02	.4654	1.307E-02	.5707	9.469E-03	.4134
18.16	.351	R17.73	7.797E-03	.3404	1.068E-02	.4661	1.310E-02	.5717	9.484E-03	.4141
18.54	.358	R17.6[illegible]	7.792E-03	.3402	1.067E-02	.4658	1.308E-02	.5712	9.477E-03	.4138
18.92	.366	R16.89	7.761E-03	.3388	1.062E-02	.4637	1.302E-02	.5684	9.437E-03	.4120
19.29	.373	R19.17	7.816E-03	.3412	1.071E-02	.4674	1.314E-02	.5735	9.510E-03	.4152
19.66	.380	R17.51	7.788E-03	.3400	1.066E-02	.4655	1.308E-02	.5709	9.473E-03	.4135
20.03	.387	R15.92	7.720E-03	.3370	1.056E-02	.4609	1.293E-02	.5646	9.383E-03	.4096
20.40	.394	R16.70	7.840E-03	.3423	1.074E-02	.4690	1.318E-02	.5756	9.540E-03	.4165
20.76	.401	R21.9[illegible]	7.936E-03	.3465	1.089E-02	.4756	1.339E-02	.5845	9.667E-03	.4220
21.12	.408	R21.64	7.988E-03	.3479	1.094E-02	.4778	1.346E-02	.5875	9.710E-03	.4239
21.48	.415	R22.94	8.026E-03	.3504	1.104E-02	.4818	1.358E-02	.5929	9.786E-03	.4272
21.84	.422	R2[illegible].35	7.912E-03	.3454	1.086E-02	.4740	1.334E-02	.5823	9.636E-03	.4207
22.19	.429	R19.06	7.856E-03	.3430	1.077E-02	.4701	1.322E-02	.5771	9.562E-03	.4175
22.54	.436	R20.16	7.904E-03	.3451	1.084E-02	.4734	1.332E-02	.5816	9.625E-03	.4202
22.88	.442	R22.26	7.996E-03	.3491	1.099E-02	.4797	1.352E-02	.5901	9.746E-03	.4255
23.23	.449	R21.16	7.946E-03	.3470	1.091E-02	.4764	1.341E-02	.5856	9.683E-03	.4227
23.57	.456	R20.41	7.915E-03	.3456	1.086E-02	.4742	1.334E-02	.5826	9.640E-03	.4209
23.91	.462	R21.44	7.961E-03	.3475	1.093E-02	.4773	1.344E-02	.5868	9.700E-03	.4235
24.24	.469	R20.23	7.908E-03	.3452	1.085E-02	.4737	1.333E-02	.5819	9.630E-03	.4204
24.57	.475	R17.29	7.781E-03	.3397	1.065E-02	.4650	1.306E-02	.5701	9.463E-03	.4131

NASA/HI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
94	8	TILE INSERT	0.175	.010	.025	1.486E 06	4.115E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.5	1300	39.41	40.00	30.00	-9.41	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0446	1.989	3803	3.556E-05	7.617E-08	1.975E 06	2.291E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.179	2.446	15.806	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.481	818.80	7.846E-03	.3426	1.075E-02	.4695	1.320E-02	.5762	9.549E-03	.4169
25.23	.488	819.25	7.866E-03	.3434	1.078E-02	.4708	1.324E-02	.5780	9.574E-03	.4180
25.55	.494	816.52	7.748E-03	.3383	1.060E-02	.4628	1.299E-02	.5672	9.420E-03	.4112
25.87	.500	812.65	7.583E-03	.3310	1.034E-02	.4516	1.265E-02	.5521	9.203E-03	.4018

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
94	8	TILE INSERT	0.175	.010	.025	1.486E 06	4.115E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.5	1300	39.41	40.00	30.00	-9.41	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0446	1.989	3803	3.956E-05	7.617E-08	1.975E 06	2.291E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.179	2.446	15.806	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.073	527.28	527.22	525.19	525.37	526.06	526.68	527.43	528.02	526.56	528.36
2.069	530.85	531.35	527.99	527.61	527.37	527.55	527.99	528.35	528.00	529.93
3.066	533.40	534.05	530.16	529.42	528.56	528.29	528.56	528.77	529.61	531.81
4.062	535.50	536.21	532.00	530.99	529.66	528.98	529.09	529.18	531.22	533.64
5.059	537.36	538.07	533.60	532.39	530.64	529.63	529.57	529.60	532.75	535.21
6.056	539.04	539.75	535.11	533.69	531.59	530.25	530.02	530.02	534.27	536.81
7.052	540.57	541.28	536.50	534.94	532.48	530.85	530.46	530.37	535.97	538.46
8.049	542.01	542.72	537.80	536.06	533.34	531.41	530.88	530.73	537.62	540.20
9.045	543.34	544.07	539.04	537.18	534.20	531.97	531.29	531.11	539.27	541.76
10.042	544.60	545.33	540.19	538.27	535.02	532.54	531.74	531.50	540.78	543.23
11.038	545.80	546.53	541.31	539.30	535.88	533.13	532.15	531.86	542.16	544.74
12.035	546.94	547.70	542.40	540.28	536.68	533.66	532.54	532.21	543.76	546.29
13.032	548.03	548.79	543.42	541.25	537.48	534.23	532.95	532.54	545.36	547.89
14.028	549.05	549.81	544.42	542.19	538.24	534.76	533.37	532.92	546.96	549.44
15.025	550.04	550.83	545.39	543.10	539.01	535.32	533.81	533.28	548.29	550.82
15.788	550.77	551.59	546.09	543.78	539.60	535.76	534.11	533.57	549.40	551.92
16.021	551.01	551.83	546.33	543.98	539.78	535.91	534.23	533.66	549.75	552.23
17.018	551.97	552.73	547.24	544.83	540.51	536.44	534.64	534.02	551.26	553.74
18.014	552.87	553.63	548.09	545.62	541.87	536.97	535.05	534.34	552.85	555.33

NASA/RI OH60
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
94	8	TILE INSERT	0.175	.010	.025	1.486E 06	4.115E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.5	1300	39.41	40.00	30.00	-9.41	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0446	1.989	3803	3.956E-05	7.617E-08	1.975E 06	2.291E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
17.179	2.446	15.806	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.200	1
9.288	2
15.729	3

C-

NASA/RI 0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
95	8	TILE INSERT	0.175	.010	.025	2.055E 06	5.689E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.0	1327	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0633	2.829	3843	5.512E-05	7.758E-08	2.731E 06	2.742E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.152	2.432	11.786	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.108	592.72	1.097E-03	.0400	1.340E-03	.0489	1.506E-03	.0549	1.304E-03	.0476
6.00	.116	567.12	5.764E-04	.0210	6.984E-04	.0255	7.811E-04	.0285	6.806E-04	.0248
9.95	.192	584.18	9.177E-04	.0335	1.117E-03	.0408	1.254E-03	.0457	1.088E-03	.0397
10.33	.200	735.35	5.162E-03	.1883	6.656E-03	.2427	7.781E-03	.2838	6.425E-03	.2343
10.71	.207	759.34	6.051E-03	.2207	7.897E-03	.2880	9.320E-03	.3399	7.609E-03	.2775
11.10	.214	767.12	6.353E-03	.2317	8.327E-03	.3037	9.859E-03	.3596	8.018E-03	.2924
11.48	.222	772.79	6.580E-03	.2400	8.652E-03	.3156	1.027E-02	.3746	8.326E-03	.3037
11.85	.229	773.43	6.851E-03	.2499	9.044E-03	.3298	1.077E-02	.3927	8.698E-03	.3172
12.23	.236	784.56	7.065E-03	.2577	9.354E-03	.3412	1.116E-02	.4072	8.993E-03	.3280
12.60	.244	786.96	7.167E-03	.2614	9.503E-03	.3466	1.135E-02	.4141	9.133E-03	.3331
12.98	.251	789.78	7.287E-03	.2658	9.679E-03	.3530	1.158E-02	.4223	9.300E-03	.3392
13.35	.258	791.77	7.373E-03	.2689	9.805E-03	.3576	1.174E-02	.4283	9.419E-03	.3436
13.72	.265	793.54	7.320E-03	.2670	9.728E-03	.3548	1.164E-02	.4246	9.346E-03	.3409
14.08	.272	792.45	7.403E-03	.2700	9.849E-03	.3592	1.180E-02	.4303	9.461E-03	.3451
14.45	.279	795.65	7.543E-03	.2751	1.006E-02	.3668	1.206E-02	.4400	9.656E-03	.3522
14.81	.286	798.29	7.660E-03	.2794	1.023E-02	.3731	1.229E-02	.4482	9.820E-03	.3582
15.17	.293	797.77	7.637E-03	.2786	1.019E-02	.3718	1.224E-02	.4466	9.788E-03	.3570
15.53	.300	797.00	7.603E-03	.2773	1.014E-02	.3700	1.218E-02	.4442	9.740E-03	.3553
15.89	.307	797.56	7.628E-03	.2782	1.018E-02	.3713	1.223E-02	.4460	9.775E-03	.3565
16.25	.314	797.80	7.639E-03	.2786	1.020E-02	.3719	1.225E-02	.4467	9.790E-03	.3571
16.60	.321	797.23	7.614E-03	.2777	1.016E-02	.3706	1.220E-02	.4450	9.755E-03	.3558

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
95	8	TILE INSERT	0.175	.010	.025	2.055E 06	5.689E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.0	1327	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0633	2.829	3843	5.512E-05	7.758E-08	2.731E 06	2.742E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
13.152	2.432	11.786	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
16.96	.328	800.13	7.743E-03	.2824	1.035E-02	.3776	1.245E-02	.4540	9.936E-03	.3624
17.31	.335	803.27	7.886E-03	.2876	1.056E-02	.3853	1.272E-02	.4641	1.014E-02	.3697
17.66	.341	803.74	7.907E-03	.2884	1.060E-02	.3864	1.276E-02	.4656	1.017E-02	.3708
18.01	.348	804.16	7.926E-03	.2891	1.062E-02	.3875	1.280E-02	.4670	1.019E-02	.3718
18.35	.355	804.33	7.935E-03	.2894	1.064E-02	.3879	1.282E-02	.4675	1.020E-02	.3722
18.70	.361	803.89	7.914E-03	.2887	1.061E-02	.3868	1.278E-02	.4661	1.018E-02	.3712
19.04	.368	803.96	7.918E-03	.2888	1.061E-02	.3870	1.279E-02	.4664	1.018E-02	.3714
19.38	.375	805.25	7.977E-03	.2910	1.070E-02	.3902	1.290E-02	.4705	1.026E-02	.3744
19.72	.381	803.78	7.910E-03	.2885	1.060E-02	.3866	1.277E-02	.4658	1.017E-02	.3709
20.06	.388	802.91	7.871E-03	.2871	1.054E-02	.3845	1.269E-02	.4630	1.011E-02	.3689
20.39	.394	805.71	7.999E-03	.2917	1.073E-02	.3914	1.294E-02	.4721	1.030E-02	.3755
20.73	.401	806.92	8.055E-03	.2938	1.082E-02	.3945	1.305E-02	.4761	1.037E-02	.3784
21.06	.407	808.06	8.108E-03	.2957	1.089E-02	.3974	1.316E-02	.4798	1.045E-02	.3811
21.39	.413	809.46	8.173E-03	.2981	1.099E-02	.4010	1.329E-02	.4846	1.054E-02	.3845
21.72	.420	810.11	8.204E-03	.2992	1.104E-02	.4026	1.334E-02	.4867	1.058E-02	.3861
22.05	.426	807.38	8.077E-03	.2946	1.085E-02	.3957	1.310E-02	.4777	1.041E-02	.3795
22.37	.432	806.66	8.044E-03	.2934	1.080E-02	.3939	1.303E-02	.4753	1.036E-02	.3778
22.69	.439	808.44	8.127E-03	.2964	1.092E-02	.3984	1.319E-02	.4812	1.048E-02	.3821
23.02	.445	810.34	8.215E-03	.2996	1.106E-02	.4033	1.337E-02	.4875	1.060E-02	.3866
23.34	.451	808.57	8.133E-03	.2966	1.093E-02	.3987	1.321E-02	.4816	1.048E-02	.3824
23.65	.457	808.20	8.116E-03	.2960	1.091E-02	.3978	1.317E-02	.4804	1.046E-02	.3815
23.97	.463	809.73	8.188E-03	.2986	1.101E-02	.4017	1.331E-02	.4856	1.056E-02	.3852

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
95	8	TILE INSERT	0.175	.010	.025	2.055E 06	5.689E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.0	1327	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0633	2.829	3843	5.512E-05	7.758E-08	2.731E 06	2.742E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.152	2.432	11.786	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.29	.469	808.74	8.141E-03	.2969	1.095E-02	.3992	1.322E-02	.4822	1.050E-02	.3828
24.60	.475	805.04	7.971E-03	.2907	1.069E-02	.3899	1.289E-02	.4700	1.026E-02	.3740
24.91	.482	803.47	7.991E-03	.2915	1.072E-02	.3910	1.293E-02	.4715	1.028E-02	.3751
25.22	.487	807.16	8.069E-03	.2943	1.084E-02	.3952	1.308E-02	.4770	1.039E-02	.3791
25.53	.493	803.58	7.905E-03	.2883	1.059E-02	.3863	1.276E-02	.4653	1.016E-02	.3706
25.83	.499	800.30	7.756E-03	.2829	1.037E-02	.3782	1.247E-02	.4549	9.954E-03	.3630
26.14	.505	765.18	6.285E-03	.2292	8.229E-03	.3001	9.735E-03	.3551	7.925E-03	.2890

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
95	8	TILE INSERT	0.175	.010	.025	2.055E 06	5.689E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.0	1327	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0633	2.829	3843	5.512E-05	7.758E-08	2.731E 06	2.742E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.152	2.432	11.786	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.067	521.19	520.53	517.63	517.45	517.51	516.94	516.76	516.88	523.77	524.58
2.063	525.79	525.58	520.92	519.90	518.83	517.75	517.33	517.18	524.81	525.80
3.060	529.15	529.03	523.58	522.03	520.11	518.53	517.87	517.63	525.62	526.74
4.056	531.94	531.83	525.85	523.88	521.28	519.25	518.41	518.05	526.60	527.77
5.053	534.40	534.25	527.93	525.61	522.45	519.93	518.92	518.50	527.37	528.71
6.050	536.59	536.44	529.81	527.22	523.55	520.82	519.43	518.89	528.31	529.61
7.046	538.57	538.45	531.59	528.77	524.66	521.28	519.87	519.25	529.34	530.69
8.043	540.37	540.31	533.25	530.25	525.67	521.94	520.35	519.67	530.28	531.76
9.039	542.07	542.04	534.85	531.65	526.74	522.60	520.80	520.08	531.18	532.66
10.036	543.66	543.64	536.38	533.01	527.76	523.25	521.28	520.50	532.08	533.60
11.032	545.13	545.21	537.83	534.31	528.77	523.91	521.76	520.89	532.97	534.49
11.788	546.18	546.36	538.86	535.26	529.51	524.39	522.12	521.19	533.69	535.21
12.029	546.53	546.74	539.25	535.59	529.78	524.57	522.24	521.25	534.04	535.52
13.026	547.88	548.20	540.57	536.86	530.79	525.22	522.72	521.67	534.98	536.50
14.022	549.17	549.46	541.81	538.04	532.00	525.85	523.14	522.09	535.88	537.35

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
95	H	TILE INSERT	0.175	.010	.025	2.055E 06	5.689E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.0	1327	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	RREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0623	2.829	3843	5.512E-05	7.758E-08	2.731E 06	2.742E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.152	2.432	11.786	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.312	1
8.514	2
11.887	3

NASA/RI OH6Q
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
06.	8	TILE INSERT	0.175	.010	.025	1.321E 06	3.658E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1295	29.63	29.97	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0396	1.763	3797	3.519E-05	7.610E-08	1.756E 06	2.155E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.521	2.437	27.153	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.108	574.32	4.811E-04	.0223	5.865E-04	.0272	6.586E-04	.0306	5.710E-04	.0265
9.95	.192	586.88	6.576E-04	.0305	8.047E-04	.0373	9.061E-04	.0420	7.830E-04	.0363
10.33	.200	694.56	2.606E-03	.1209	3.322E-03	.1541	3.852E-03	.1787	3.213E-03	.1491
10.71	.207	721.74	3.234E-03	.1500	4.176E-03	.1938	4.891E-03	.2269	4.032E-03	.1871
11.10	.214	734.77	3.678E-03	.1707	4.797E-03	.2226	5.657E-03	.2625	4.623E-03	.2145
11.48	.222	749.80	3.937E-03	.1827	5.163E-03	.2395	6.115E-03	.2837	4.972E-03	.2307
11.85	.229	756.68	4.120E-03	.1911	5.424E-03	.2516	6.444E-03	.2990	5.220E-03	.2422
12.23	.236	761.68	4.255E-03	.1974	5.615E-03	.2607	6.691E-03	.3104	5.405E-03	.2507
12.60	.244	769.81	4.480E-03	.2079	5.946E-03	.2759	7.108E-03	.3298	5.715E-03	.2651
12.98	.251	777.18	4.690E-03	.2176	6.254E-03	.2901	7.504E-03	.3482	6.006E-03	.2786
13.35	.258	782.43	4.843E-03	.2247	6.480E-03	.3006	7.797E-03	.3618	6.220E-03	.2886
13.72	.265	784.12	4.893E-03	.2270	6.554E-03	.3041	7.894E-03	.3662	6.290E-03	.2918
14.08	.272	787.50	4.995E-03	.2317	6.705E-03	.3111	8.090E-03	.3753	6.432E-03	.2984
14.45	.279	791.89	5.128E-03	.2379	6.905E-03	.3203	8.351E-03	.3875	6.621E-03	.3072
14.81	.286	794.86	5.220E-03	.2422	7.042E-03	.3267	8.532E-03	.3958	6.751E-03	.3132
15.17	.293	794.50	5.209E-03	.2417	7.026E-03	.3260	8.510E-03	.3948	6.735E-03	.3125
15.53	.300	793.75	5.185E-03	.2406	6.991E-03	.3243	8.464E-03	.3927	6.702E-03	.3110
15.89	.307	794.04	5.195E-03	.2410	7.005E-03	.3250	8.482E-03	.3935	6.715E-03	.3116
16.25	.314	793.89	5.187E-03	.2407	6.994E-03	.3245	8.468E-03	.3929	6.705E-03	.3111
16.60	.321	793.84	5.186E-03	.2407	6.995E-03	.3245	8.470E-03	.3930	6.707E-03	.3111
16.96	.328	797.64	5.307E-03	.2462	7.174E-03	.3328	8.706E-03	.4039	6.875E-03	.3190

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
96	8	TILE INSERT	0.175	.010	.025	1.321E 06	3.658E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1295	29.63	29.97	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0396	1.763	3797	3.519E-05	7.610E-08	1.756E 06	2.155E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.521	2.437	27.153.	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	800.56	5.399E-03	.2505	7.314E-03	.3394	8.891E-03	.4125	7.007E-03	.3251
17.66	.341	801.33	5.424E-03	.2516	7.352E-03	.3411	8.940E-03	.4148	7.042E-03	.3267
18.01	.348	801.15	5.418E-03	.2514	7.343E-03	.3407	8.929E-03	.4143	7.034E-03	.3263
18.35	.355	800.21	5.388E-03	.2500	7.298E-03	.3386	8.869E-03	.4115	6.991E-03	.3244
18.70	.361	799.40	5.363E-03	.2488	7.255E-03	.3368	8.817E-03	.4091	6.955E-03	.3227
19.04	.368	799.81	5.376E-03	.2494	7.278E-03	.3377	8.843E-03	.4103	6.973E-03	.3235
19.38	.375	802.06	5.447E-03	.2527	7.387E-03	.3427	8.987E-03	.4169	7.075E-03	.3282
19.72	.381	801.13	5.418E-03	.2514	7.342E-03	.3406	8.928E-03	.4142	7.033E-03	.3263
20.06	.388	799.73	5.373E-03	.2493	7.275E-03	.3375	8.839E-03	.4101	6.970E-03	.3234
20.39	.394	801.91	5.443E-03	.2525	7.381E-03	.3424	8.979E-03	.4166	7.070E-03	.3280
20.73	.401	803.44	5.492E-03	.2548	7.456E-03	.3459	9.079E-03	.4212	7.140E-03	.3313
21.06	.407	805.02	5.543E-03	.2572	7.534E-03	.3495	9.182E-03	.4260	7.213E-03	.3347
21.39	.413	806.42	5.589E-03	.2593	7.604E-03	.3528	9.276E-03	.4303	7.279E-03	.3377
21.72	.420	807.53	5.626E-03	.2610	7.660E-03	.3554	9.350E-03	.4338	7.332E-03	.3402
22.05	.426	804.97	5.542E-03	.2571	7.532E-03	.3494	9.180E-03	.4259	7.212E-03	.3346
22.37	.432	803.86	5.504E-03	.2554	7.474E-03	.3467	9.102E-03	.4223	7.157E-03	.3320
22.69	.439	805.08	5.546E-03	.2573	7.537E-03	.3497	9.187E-03	.4262	7.217E-03	.3348
23.02	.445	807.20	5.615E-03	.2605	7.644E-03	.3546	9.328E-03	.4328	7.317E-03	.3395
23.34	.451	805.15	5.548E-03	.2574	7.541E-03	.3499	9.191E-03	.4264	7.220E-03	.3350
23.65	.457	804.60	5.530E-03	.2566	7.514E-03	.3486	9.155E-03	.4248	7.194E-03	.3338
23.97	.463	805.79	5.569E-03	.2584	7.573E-03	.3514	9.235E-03	.4284	7.251E-03	.3364
24.29	.469	805.10	5.547E-03	.2573	7.539E-03	.3498	9.189E-03	.4263	7.218E-03	.3349

NASA/RI OH69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
96	8	TILE INSERT	0.175	.010	.025	1.321E 06	3.658E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1295	29.63	29.97	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0396	1.763	3797	3.519E-05	7.610E-08	1.756E 06	2.155E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.521	2.437	27.153	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	801.25	5.423E-03	.2516	7.350E-03	.3410	8.937E-03	.4147	7.040E-03	.3266
24.91	.482	800.70	5.405E-03	.2508	7.323E-03	.3398	8.903E-03	.4130	7.015E-03	.3255
25.22	.487	801.77	5.440E-03	.2524	7.375E-03	.3422	8.972E-03	.4162	7.064E-03	.3278
25.53	.493	798.63	5.340E-03	.2477	7.224E-03	.3351	8.771E-03	.4069	6.922E-03	.3211
25.83	.499	795.84	5.252E-03	.2437	7.091E-03	.3290	8.596E-03	.3988	6.797E-03	.3153
26.14	.505	770.10	4.490E-03	.2083	5.960E-03	.2765	7.127E-03	.3307	5.728E-03	.2658

C-

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
96	8	TILE INSERT	0.175	.010	.025	1.321E 06	3.658E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1295	29.63	29.97	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0396	1.763	3797	3.519E-05	7.610E-08	1.756E 06	2.155E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.521	2.437	27.153	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.069	528.83	528.14	526.03	525.88	525.70	525.10	524.75	524.72	526.47	526.87
2.065	532.36	531.86	528.50	527.76	526.80	525.79	525.19	525.02	526.92	527.46
3.062	534.94	534.43	530.49	529.36	527.79	526.39	525.64	525.37	527.41	528.00
4.058	537.03	536.56	532.24	530.76	528.68	526.95	526.06	525.67	527.64	528.36
5.055	538.92	538.39	533.78	532.03	529.48	527.49	526.45	526.03	528.04	528.71
6.052	540.60	540.07	535.23	533.28	530.40	527.99	526.83	526.30	528.45	529.30
7.048	542.16	541.57	536.56	534.46	531.20	528.47	527.19	526.62	529.03	529.75
8.045	543.60	543.04	537.83	535.56	532.03	528.98	527.55	526.92	529.57	530.28
9.041	544.98	544.39	539.04	536.65	532.80	529.48	527.90	527.25	529.88	530.73
10.038	546.27	545.65	540.22	537.68	533.57	529.99	528.26	527.55	530.19	531.14
11.034	547.50	546.86	541.31	538.69	534.34	530.46	528.59	527.85	530.73	531.54
12.031	548.67	548.03	542.40	539.66	535.11	530.94	528.95	528.11	531.27	532.12
13.028	549.81	549.14	543.42	540.60	535.85	531.44	529.30	528.44	531.81	532.61
14.024	550.89	550.19	544.45	541.54	536.59	531.97	529.69	528.77	532.21	533.10
15.021	551.94	551.21	545.42	542.45	537.30	532.45	530.04	529.03	532.61	533.42
16.017	552.93	552.23	546.33	543.31	538.07	532.95	530.40	529.33	533.10	533.95
17.014	553.92	553.20	547.27	544.19	538.74	533.43	530.76	529.63	533.69	534.49
18.010	554.88	554.13	548.17	545.04	539.45	533.96	531.14	529.96	534.13	535.07
19.007	555.82	555.09	549.02	545.80	540.13	534.49	531.53	530.31	534.49	535.30
20.004	556.69	555.96	549.87	546.65	540.84	534.99	531.91	530.64	534.94	535.79
21.000	557.59	556.83	550.72	547.44	541.51	535.50	532.30	530.94	535.52	536.28

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
96	8	TILE INSERT	0.175	.010	.025	1.321E 06	3.658E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1295	29.63	29.97	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0396	1.763	3797	3.519E-05	7.610E-08	1.756E 06	2.155E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.521	2.437	27.153	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.997	558.46	557.70	551.53	548.23	542.19	536.00	532.69	531.23	536.01	536.90
22.993	559.27	558.55	552.32	548.99	542.87	536.50	533.07	531.62	536.46	537.35
23.990	560.08	559.36	553.11	549.75	543.51	537.03	533.48	531.94	536.81	537.71
24.986	560.89	560.14	553.85	550.48	544.19	537.54	533.87	532.30	537.22	538.11
25.983	561.68	560.99	554.62	551.18	544.80	538.04	534.28	532.60	537.75	538.64
26.980	562.46	561.68	555.38	551.91	545.45	538.54	534.67	532.95	538.29	539.31
27.135	562.57	561.79	555.50	552.00	545.54	538.63	534.73	533.01	538.24	539.27
27.976	563.24	562.43	556.11	552.61	546.06	539.04	535.08	533.31	538.64	539.58
28.973	563.96	563.18	556.83	553.31	546.71	539.57	535.50	533.69	539.04	539.98
29.969	564.71	563.90	557.53	553.98	547.38	540.04	535.91	534.02	539.49	540.47

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
96	8	TILE INSERT	0.175	.010	.025	1.321E 06	3.658E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1295	29.63	29.97	30.00	.37	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0396	1.763	3797	3.519E-05	7.610E-08	1.756E 06	2.155E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
28.521	2.437	27.153	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
6.801	1
13.114	2
27.158	3

NASA/RI 0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
97	8	TILE INSERT	0.175	.010	.025	1.323E 06	3.662E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREHEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1294	39.49	40.01	30.00	-9.49	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0396	1.763	3795	3.522E-05	7.604E-08	1.758E 06	2.155E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.937	2.455	19.559	1000

X (IN)	X/L	TW. (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
8.15	.156	575.82	6.354E-04	.0295	7.750E-04	.0360	8.706E-04	.0404	7.210E-04	.0335
8.60	.166	587.09	8.236E-04	.0382	1.008E-03	.0468	1.136E-03	.0527	9.368E-04	.0435
9.05	.175	602.73	1.100E-03	.0510	1.353E-03	.0628	1.529E-03	.0710	1.255E-03	.0582
9.49	.183	691.85	3.059E-03	.1419	3.896E-03	.1808	4.513E-03	.2094	3.564E-03	.1654
9.93	.192	707.07	3.465E-03	.1608	4.444E-03	.2062	5.176E-03	.2402	4.054E-03	.1881
10.37	.200	720.34	3.833E-03	.1779	4.950E-03	.2297	5.793E-03	.2688	4.503E-03	.2089
10.81	.209	773.12	5.460E-03	.2534	7.264E-03	.3371	8.701E-03	.4037	6.529E-03	.3030
11.24	.217	782.22	5.772E-03	.2678	7.724E-03	.3584	9.296E-03	.4314	6.926E-03	.3214
11.67	.226	787.13	5.944E-03	.2758	7.981E-03	.3703	9.630E-03	.4469	7.147E-03	.3316
12.10	.234	795.52	6.249E-03	.2899	8.438E-03	.3915	1.023E-02	.4747	7.538E-03	.3498
12.52	.242	800.94	6.452E-03	.2994	8.746E-03	.4058	1.064E-02	.4936	7.801E-03	.3620
12.94	.250	803.14	6.536E-03	.3033	8.874E-03	.4118	1.081E-02	.5015	7.910E-03	.3670
13.36	.258	805.81	6.638E-03	.3080	9.031E-03	.4190	1.102E-02	.5112	8.043E-03	.3732
13.78	.266	805.73	6.635E-03	.3079	9.026E-03	.4188	1.101E-02	.5109	8.039E-03	.3730
14.19	.274	808.44	6.740E-03	.3128	9.186E-03	.4263	1.123E-02	.5209	8.176E-03	.3794
14.60	.282	813.58	6.940E-03	.3220	9.497E-03	.4407	1.164E-02	.5402	8.438E-03	.3915
15.01	.290	815.07	6.998E-03	.3247	9.588E-03	.4449	1.176E-02	.5458	8.514E-03	.3951
15.41	.298	813.73	6.946E-03	.3223	9.507E-03	.4411	1.165E-02	.5408	8.446E-03	.3919
15.81	.306	814.02	6.958E-03	.3228	9.524E-03	.4419	1.168E-02	.5418	8.461E-03	.3926
16.21	.313	814.86	6.991E-03	.3244	9.575E-03	.4443	1.175E-02	.5451	8.504E-03	.3946
16.61	.321	814.91	6.993E-03	.3245	9.578E-03	.4444	1.175E-02	.5453	8.507E-03	.3947

NASA/GI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
97	H	TILE INSERT	0.175	.010	.025	1.323E 06	3.662E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1294	39.49	40.01	30.00	-9.49	40.00	0

T - INF (DEG R)	P - INF (PSIA)	U - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0396	1.763	3795	3.522E-05	7.604E-08	1.758E 06	2.155E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
20.937	2.455	19.559	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.00	.329	818.07	7.117E-03	.3302	9.773E-03	.4535	1.201E-02	.5575	8.670E-03	.4023
17.39	.336	819.79	7.185E-03	.3334	9.879E-03	.4584	1.216E-02	.5642	8.760E-03	.4065
17.77	.344	819.32	7.166E-03	.3325	9.850E-03	.4571	1.212E-02	.5624	8.735E-03	.4053
18.16	.351	820.42	7.210E-03	.3345	9.919E-03	.4602	1.221E-02	.5667	8.793E-03	.4080
18.54	.358	820.34	7.207E-03	.3344	9.914E-03	.4600	1.221E-02	.5664	8.789E-03	.4078
18.92	.366	819.12	7.158E-03	.3321	9.837E-03	.4564	1.210E-02	.5615	8.724E-03	.4048
19.29	.373	820.58	7.217E-03	.3349	9.929E-03	.4607	1.223E-02	.5674	8.802E-03	.4084
19.66	.380	821.21	7.242E-03	.3360	9.969E-03	.4626	1.228E-02	.5699	8.835E-03	.4100
20.03	.387	818.96	7.153E-03	.3319	9.829E-03	.4561	1.209E-02	.5610	8.717E-03	.4045
20.40	.394	820.08	7.197E-03	.3340	9.899E-03	.4593	1.219E-02	.5654	8.776E-03	.4072
20.76	.401	821.57	7.257E-03	.3367	9.992E-03	.4636	1.231E-02	.5713	8.855E-03	.4109
21.12	.408	823.93	7.351E-03	.3411	1.014E-02	.4706	1.252E-02	.5808	8.980E-03	.4167
21.48	.415	825.68	7.421E-03	.3443	1.025E-02	.4757	1.267E-02	.5879	9.073E-03	.4210
21.84	.422	824.78	7.385E-03	.3427	1.020E-02	.4731	1.259E-02	.5842	9.025E-03	.4188
22.19	.429	821.73	7.263E-03	.3370	1.000E-02	.4641	1.233E-02	.5720	8.864E-03	.4113
22.54	.436	821.72	7.262E-03	.3370	1.000E-02	.4640	1.232E-02	.5719	8.862E-03	.4112
22.88	.442	824.57	7.377E-03	.3423	1.018E-02	.4725	1.257E-02	.5834	9.014E-03	.4183
23.23	.449	824.54	7.376E-03	.3422	1.018E-02	.4724	1.257E-02	.5833	9.013E-03	.4182
23.57	.456	821.95	7.273E-03	.3375	1.002E-02	.4648	1.235E-02	.5729	8.876E-03	.4119
23.91	.462	823.03	7.316E-03	.3395	1.009E-02	.4680	1.244E-02	.5772	8.933E-03	.4145
24.24	.469	822.45	7.293E-03	.3384	1.005E-02	.4663	1.239E-02	.5749	8.902E-03	.4131
24.57	.475	818.90	7.152E-03	.3319	9.827E-03	.4560	1.209E-02	.5609	8.716E-03	.4044

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
97	8	TILE INSERT	0.175	.010	.025	1.323E 06	3.662E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1294	39.49	40.01	30.00	-9.49	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0396	1.763	3795	3.522E-05	7.604E-08	1.758E 06	2.155E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.937	2.455	19.559	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.481	819.43	7.173E-03	.3328	9.860E-03	.4575	1.213E-02	.5630	8.744E-03	.4057
25.23	.488	820.87	7.230E-03	.3355	9.950E-03	.4617	1.226E-02	.5686	8.820E-03	.4092
25.55	.494	818.17	7.123E-03	.3305	9.782E-03	.4539	1.203E-02	.5581	8.678E-03	.4027
25.87	.500	814.42	6.977E-03	.3237	9.553E-03	.4433	1.172E-02	.5436	8.485E-03	.3937

NASA/RI 0H60
V418-E9A

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
97	8	TILE INSERT	0.175	.010	.025	1.323E 06	3.662E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1294	39.49	40.01	30.00	-9.49	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0396	1.763	3795	3.522E-05	7.604E-08	1.758E 06	2.155E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.937	2.455	19.559	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.077	531.08	531.29	529.45	529.48	529.69	529.15	529.00	529.12	523.01	524.54
2.073	534.46	535.08	532.12	531.65	530.88	530.02	529.60	529.51	524.04	525.75
3.070	536.89	537.62	534.17	533.37	532.06	530.73	530.13	529.90	525.44	527.37
4.066	538.86	539.66	535.91	534.85	533.10	531.41	530.67	530.31	526.96	528.94
5.063	540.60	541.40	537.42	536.18	533.54	532.06	531.14	530.76	528.36	530.51
6.060	542.19	543.04	538.86	537.45	534.94	532.69	531.59	531.14	529.61	531.81
7.056	543.69	544.51	540.19	538.63	535.85	533.28	532.03	531.53	531.05	533.28
8.053	545.13	545.95	541.45	539.75	536.71	533.84	532.48	531.88	532.57	534.76
9.049	546.45	547.27	542.66	540.87	537.54	534.37	532.89	532.24	534.13	536.23
10.046	547.70	548.49	543.84	541.93	538.36	534.94	533.31	532.66	535.43	537.66
11.042	548.93	549.72	544.95	542.95	539.19	535.50	533.69	533.01	536.64	538.95
12.039	550.07	550.89	546.06	543.95	539.98	536.06	534.17	533.37	538.06	540.29
13.036	551.12	552.00	547.12	544.92	540.75	536.59	534.55	533.69	539.49	541.72
14.032	552.23	553.08	548.14	545.86	541.54	537.15	534.96	534.08	541.00	543.18
15.029	553.28	554.16	549.14	546.80	542.31	537.71	535.38	534.46	542.29	544.56
16.025	554.33	555.18	550.10	547.70	543.07	538.27	535.79	534.82	543.54	545.72
17.022	555.35	556.16	551.04	548.58	543.81	538.80	536.24	535.20	544.87	547.00
18.018	556.31	557.12	551.94	549.46	544.57	539.36	536.65	535.56	546.34	548.56
19.015	557.27	558.05	552.85	550.31	545.30	539.92	537.09	535.88	547.71	549.89
19.541	557.76	558.57	553.31	550.75	545.68	540.22	537.33	536.12	548.38	550.68
20.012	558.17	558.98	553.72	551.15	546.04	540.45	537.54	536.29	548.87	551.17

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
97	8	TILE INSERT	0.175	.010	.025	1.323E 06	3.662E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1294	39.49	40.01	30.00	-9.49	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0396	1.763	3795	3.522E-05	7.604E-08	1.758E 06	2.155E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.937	2.455	19.559	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.008	559.01	559.82	554.56	551.97	546.74	541.04	537.95	536.71	550.15	552.41
22.005	559.82	560.63	555.38	552.73	547.44	541.60	538.39	537.06	551.44	553.60
23.001	560.63	561.47	556.16	553.52	548.14	542.13	538.83	537.45	552.81	555.02

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
97	8	TILE INSERT	0.175	.010	.025	1.323E 06	3.662E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.7	1294	39.49	40.01	30.00	-9.49	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0336	1.763	3795	3.522E-05	7.604E-08	1.758E 06	2.155E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.937	2.455	19.559	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.674	1
10.444	2
19.532	3

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
98	8	TILE INSERT	0.175	.010	.025	1.137E 06	3.148E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.9	1290	39.55	40.00	30.00	-9.55	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0341	1.511	3789	3.029E-05	7.596E-08	1.511E 06	1.994E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.177	2.437	25.809	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
8.15	.158	575.85	5.443E-04	.0273	6.643E-04	.0333	7.466E-04	.0374	6.179E-04	.0310
8.60	.166	589.69	7.479E-04	.0375	9.167E-04	.0460	1.033E-03	.0518	8.513E-04	.0427
9.05	.175	632.29	1.449E-03	.0727	1.802E-03	.0904	2.053E-03	.1029	1.664E-03	.0835
9.49	.183	719.73	3.330E-03	.1670	4.304E-03	.2158	5.040E-03	.2528	3.914E-03	.1963
9.93	.192	679.00	2.378E-03	.1192	3.014E-03	.1512	3.480E-03	.1745	2.762E-03	.1385
10.37	.200	752.90	4.196E-03	.2104	5.523E-03	.2770	6.560E-03	.3290	4.986E-03	.2501
10.81	.209	767.52	4.609E-03	.2312	6.121E-03	.3069	7.321E-03	.3671	5.506E-03	.2761
11.24	.217	777.78	4.913E-03	.2464	6.567E-03	.3293	7.896E-03	.3960	5.892E-03	.2955
11.67	.226	784.02	5.228E-03	.2622	7.036E-03	.3529	8.507E-03	.4266	6.295E-03	.3157
12.10	.234	795.33	5.461E-03	.2739	7.388E-03	.3705	8.970E-03	.4499	6.596E-03	.3308
12.52	.242	799.47	5.564E-03	.2790	7.543E-03	.3783	9.176E-03	.4602	6.728E-03	.3374
12.94	.250	801.69	5.670E-03	.2843	7.706E-03	.3864	9.392E-03	.4710	6.867E-03	.3444
13.36	.258	804.66	5.770E-03	.2894	7.859E-03	.3941	9.596E-03	.4812	6.997E-03	.3509
13.78	.266	804.92	5.779E-03	.2898	7.872E-03	.3948	9.614E-03	.4821	7.004E-03	.3515
14.19	.274	808.72	5.908E-03	.2963	8.072E-03	.4048	9.881E-03	.4955	7.177E-03	.3599
14.60	.282	813.77	6.081E-03	.3050	8.340E-03	.4183	1.024E-02	.5137	7.404E-03	.3713
15.01	.290	813.65	6.077E-03	.3047	8.334E-03	.4179	1.023E-02	.5132	7.399E-03	.3710
15.41	.298	811.95	6.019E-03	.3018	8.243E-03	.4134	1.011E-02	.5071	7.322E-03	.3672
15.81	.306	813.00	6.055E-03	.3037	8.300E-03	.4162	1.019E-02	.5109	7.370E-03	.3696
16.21	.313	814.13	6.094E-03	.3056	8.360E-03	.4193	1.027E-02	.5150	7.421E-03	.3721
16.61	.321	815.02	6.124E-03	.3071	8.407E-03	.4216	1.033E-02	.5183	7.461E-03	.3742

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
98	8	TILE INSERT	0.175	.010	.025	1.137E 06	3.148E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.9	1290	39.55	40.00	30.00	-9.55	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0341	1.511	3789	3.029E-05	7.596E-08	1.511E 06	1.994E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.177	2.437	25.809	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.00	.329	818.50	6.245E-03	.3132	8.597E-03	.4311	1.059E-02	.5312	7.620E-03	.3821
17.39	.336	817.96	6.226E-03	.3122	8.567E-03	.4296	1.055E-02	.5291	7.595E-03	.3809
17.77	.344	818.03	6.220E-03	.3123	8.571E-03	.4299	1.056E-02	.5294	7.598E-03	.3810
18.16	.351	818.36	6.240E-03	.3129	8.585E-03	.4307	1.058E-02	.5306	7.614E-03	.3818
18.54	.358	817.54	6.211E-03	.3115	8.544E-03	.4285	1.052E-02	.5276	7.576E-03	.3799
18.92	.366	816.77	6.185E-03	.3102	8.503E-03	.4264	1.046E-02	.5248	7.541E-03	.3782
19.29	.373	819.03	6.263E-03	.3141	8.626E-03	.4326	1.063E-02	.5331	7.644E-03	.3834
19.66	.380	818.34	6.239E-03	.3129	8.588E-03	.4307	1.058E-02	.5306	7.613E-03	.3818
20.03	.387	816.87	6.189E-03	.3104	8.508E-03	.4267	1.047E-02	.5251	7.546E-03	.3784
20.40	.394	819.21	6.270E-03	.3144	8.636E-03	.4331	1.065E-02	.5339	7.653E-03	.3838
20.76	.401	821.49	6.350E-03	.3184	8.762E-03	.4394	1.082E-02	.5425	7.759E-03	.3891
21.12	.408	822.62	6.389E-03	.3204	8.825E-03	.4426	1.090E-02	.5468	7.812E-03	.3917
21.48	.415	823.72	6.428E-03	.3224	8.887E-03	.4457	1.099E-02	.5510	7.863E-03	.3943
21.84	.422	820.35	6.310E-03	.3164	8.699E-03	.4363	1.073E-02	.5382	7.706E-03	.3865
22.19	.429	818.90	6.259E-03	.3139	8.620E-03	.4323	1.062E-02	.5327	7.639E-03	.3831
22.54	.436	820.62	6.319E-03	.3169	8.715E-03	.4370	1.075E-02	.5392	7.719E-03	.3871
22.88	.442	822.42	6.383E-03	.3201	8.814E-03	.4420	1.089E-02	.5461	7.803E-03	.3913
23.23	.449	820.06	6.300E-03	.3159	8.684E-03	.4355	1.071E-02	.5371	7.693E-03	.3858
23.57	.456	819.51	6.281E-03	.3150	8.654E-03	.4340	1.067E-02	.5350	7.668E-03	.3845
23.91	.462	820.41	6.312E-03	.3166	8.703E-03	.4365	1.074E-02	.5384	7.710E-03	.3866
24.24	.469	818.53	6.247E-03	.3133	8.600E-03	.4313	1.060E-02	.5314	7.623E-03	.3823
24.57	.475	816.08	6.162E-03	.3090	8.467E-03	.4246	1.042E-02	.5223	7.511E-03	.3767

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
98	8	TILE INSERT	0.175	.010	.025	1.137E 06	3.148E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.9	1290	39.55	40.00	30.00	-9.55	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0341	1.511	3789	3.029E-05	7.596E-08	1.511E 06	1.994E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.177	2.437	25.809	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.481	818.93	6.261E-03	.3140	8.622E-03	.4324	1.063E-02	.5329	7.641E-03	.3832
25.23	.488	817.92	6.226E-03	.3122	8.568E-03	.4297	1.055E-02	.5291	7.595E-03	.3809
25.55	.494	815.74	6.151E-03	.3085	8.449E-03	.4237	1.039E-02	.5211	7.496E-03	.3759
25.87	.500	818.22	5.962E-03	.2990	8.155E-03	.4090	9.993E-03	.5011	7.248E-03	.3635

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
98	8	TILE INSERT	0.175	.010	.025	1.137E 06	3.148E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.9	1290	39.55	40.00	30.00	-9.55	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0341	1.511	3749	3.029E-05	7.596E-08	1.511E 06	1.994E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.177	2.437	25.809	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.069	515.61	515.25	513.57	513.54	513.78	514.08	514.53	515.01	522.38	523.77
2.065	518.80	518.86	515.97	515.55	515.10	514.89	515.10	515.37	523.59	525.08
3.062	520.95	521.25	517.84	517.15	516.15	515.55	515.61	515.76	524.72	526.43
4.058	522.78	523.14	519.40	518.53	517.12	516.18	516.09	516.18	525.80	527.64
5.055	524.27	524.78	520.80	519.78	517.51	516.79	516.52	516.55	526.92	528.89
6.052	525.70	526.24	522.09	520.92	518.80	517.33	516.94	516.88	528.22	530.19
7.048	527.04	527.61	523.28	521.97	519.61	517.84	517.33	517.21	529.52	531.54
8.045	528.32	528.86	524.39	523.02	520.38	518.35	517.72	517.54	530.73	532.79
9.041	529.51	530.04	525.49	524.00	521.13	518.86	518.11	517.93	531.90	533.87
10.038	530.64	531.17	526.54	524.93	521.88	519.37	518.47	518.23	532.97	535.03
11.034	531.77	532.24	527.55	525.82	522.57	519.84	518.83	518.53	534.18	536.19
12.031	532.83	533.22	528.47	526.68	523.28	520.35	519.19	518.86	535.56	537.53
13.028	533.84	534.17	529.39	527.55	523.94	520.83	519.58	519.19	536.72	538.64
14.024	534.78	535.11	530.28	528.35	524.66	521.31	519.93	519.52	537.75	539.76
15.021	535.67	536.00	531.14	529.15	525.31	521.82	520.29	519.84	538.82	540.83
16.017	536.53	536.86	531.97	529.90	525.94	522.30	520.65	520.14	539.94	541.98
17.014	537.36	537.68	532.77	530.67	526.59	522.75	521.04	520.47	541.27	543.32
18.010	538.18	538.51	533.57	531.38	527.22	523.25	521.40	520.80	542.43	544.34
19.007	538.92	539.28	534.31	532.09	527.87	523.73	521.79	521.13	543.41	545.45
20.004	539.69	540.01	535.08	532.80	528.47	524.24	522.18	521.46	544.47	546.43
21.000	540.42	540.78	535.82	533.51	529.09	524.72	522.57	521.79	545.63	547.49

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
98	8	TILE INSERT	0.175	.010	.025	1.137E 06	3.148E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.9	1290	39.55	40.00	30.00	-9.55	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	RREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0341	1.511	3789	3.029E-05	7.596E-08	1.511E 06	1.994E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.177	2.437	25.809	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.997	541.13	541.45	536.50	534.17	529.69	525.16	522.96	522.12	546.83	548.78
22.993	541.78	542.19	537.18	534.82	530.31	525.64	523.34	522.48	547.89	549.84
23.990	542.37	542.87	537.89	535.47	530.88	526.15	523.70	522.81	548.82	550.91
24.986	542.98	543.51	538.54	536.12	531.47	526.62	524.12	523.19	549.89	551.79
25.791	543.48	544.04	539.07	536.62	531.94	527.01	524.42	523.46	550.86	552.90
25.983	543.60	544.16	539.19	536.74	532.03	527.10	524.51	523.52	550.95	552.99
26.980	544.22	544.80	539.81	537.33	532.63	527.55	524.90	523.85	552.10	554.09
27.976	544.83	545.42	540.42	537.92	533.19	528.05	525.31	524.21	553.21	555.15
28.973	545.42	546.01	541.01	538.51	533.78	528.50	525.70	524.57	554.18	556.12

L = 4.311 FT

GROUP.	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
98	8	TILE INSERT	0.175	.010	.025	1.137E 06	3.148E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.9	1290	39.55	40.00	30.00	-9.55	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0341	1.511	3789	3.029E-05	7.596E-08	1.511E 06	1.994E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
27.177	2.437	25.809	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.799	1
11.322	2
25.722	3

NASA/RI 0H69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
99	8	TILE INSERT	0.175	.010	.025	1.142E 06	3.163E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	323.5	1290	29.70	30.00	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0342	1.518	3789	3.044E-05	7.597E-08	1.518E 06	1.999E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
40.004	2.432	38.639	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	632.83	1.145E-03	.0573	1.425E-03	.0713	1.623E-03	.0812	1.383E-03	.0692
10.33	.200	692.85	2.145E-03	.1073	2.737E-03	.1369	3.174E-03	.1588	2.646E-03	.1324
10.71	.207	717.98	2.829E-03	.1415	3.395E-03	.1698	3.973E-03	.1987	3.276E-03	.1639
11.10	.214	721.34	2.699E-03	.1350	3.490E-03	.1746	4.090E-03	.2046	3.368E-03	.1685
11.48	.222	734.99	2.981E-03	.1491	3.893E-03	.1947	4.576E-03	.2289	3.743E-03	.1872
11.85	.229	747.93	3.260E-03	.1631	4.278E-03	.2140	5.070E-03	.2536	4.118E-03	.2060
12.23	.236	759.81	3.504E-03	.1753	4.628E-03	.2315	5.512E-03	.2757	4.451E-03	.2227
12.60	.244	772.48	3.825E-03	.1913	5.094E-03	.2548	6.108E-03	.3055	4.893E-03	.2448
12.98	.251	776.59	3.924E-03	.1963	5.241E-03	.2622	6.297E-03	.3150	5.031E-03	.2517
13.35	.258	782.27	4.065E-03	.2033	5.449E-03	.2726	6.567E-03	.3285	5.228E-03	.2615
13.72	.265	783.72	4.101E-03	.2051	5.503E-03	.2753	6.637E-03	.3320	5.279E-03	.2641
14.08	.272	784.86	4.257E-03	.2129	5.736E-03	.2869	6.942E-03	.3473	5.499E-03	.2751
14.45	.279	785.24	4.397E-03	.2200	5.948E-03	.2975	7.221E-03	.3612	5.698E-03	.2850
14.81	.286	785.46	4.482E-03	.2242	6.077E-03	.3040	7.392E-03	.3698	5.820E-03	.2911
15.17	.293	786.22	4.503E-03	.2253	6.108E-03	.3056	7.433E-03	.3718	5.849E-03	.2926
15.53	.300	786.29	4.505E-03	.2253	6.111E-03	.3057	7.437E-03	.3720	5.852E-03	.2927
15.89	.307	787.07	4.526E-03	.2264	6.143E-03	.3073	7.479E-03	.3741	5.882E-03	.2942
16.25	.314	790.89	4.521E-03	.2262	6.136E-03	.3069	7.469E-03	.3736	5.875E-03	.2939
16.60	.321	801.94	4.577E-03	.2290	6.222E-03	.3112	7.584E-03	.3794	5.956E-03	.2979
16.96	.328	805.81	4.683E-03	.2342	6.383E-03	.3193	7.799E-03	.3901	6.108E-03	.3055
17.31	.335	807.17	4.720E-03	.2361	6.441E-03	.3222	7.876E-03	.3940	6.162E-03	.3082

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
09	8	TILE INSERT	0.175	.010	.025	1.142E 06	3.163E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	323.5	1290	29.70	30.00	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0342	1.518	3789	3.044E-05	7.597E-08	1.518E 06	1.999E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
40.064	2.432	38.639	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	807.80	4.738E-03	.2370	6.468E-03	.3235	7.912E-03	.3958	6.187E-03	.3095
18.01	.348	807.21	4.721E-03	.2362	6.442E-03	.3223	7.878E-03	.3941	6.163E-03	.3083
18.35	.355	806.04	4.689E-03	.2346	6.393E-03	.3198	7.812E-03	.3908	6.117E-03	.3060
18.70	.361	805.44	4.672E-03	.2337	6.367E-03	.3185	7.778E-03	.3891	6.093E-03	.3048
19.04	.368	807.28	4.723E-03	.2363	6.446E-03	.3224	7.883E-03	.3943	6.167E-03	.3085
19.38	.375	807.78	4.737E-03	.2370	6.467E-03	.3235	7.911E-03	.3958	6.187E-03	.3095
19.72	.381	805.66	4.679E-03	.2340	6.377E-03	.3190	7.790E-03	.3897	6.102E-03	.3052
20.06	.388	806.09	4.688E-03	.2345	6.391E-03	.3197	7.810E-03	.3907	6.115E-03	.3059
20.39	.394	808.52	4.758E-03	.2380	6.499E-03	.3251	7.954E-03	.3979	6.217E-03	.3110
20.73	.401	810.42	4.811E-03	.2407	6.581E-03	.3292	8.064E-03	.4034	6.294E-03	.3148
21.06	.407	811.33	4.836E-03	.2419	6.620E-03	.3312	8.117E-03	.4060	6.330E-03	.3167
21.39	.413	813.09	4.885E-03	.2444	6.696E-03	.3350	8.220E-03	.4112	6.402E-03	.3202
21.72	.420	811.85	4.851E-03	.2426	6.642E-03	.3323	8.147E-03	.4075	6.351E-03	.3177
22.05	.426	809.79	4.794E-03	.2398	6.554E-03	.3278	8.028E-03	.4016	6.268E-03	.3136
22.37	.432	808.12	4.775E-03	.2389	6.525E-03	.3264	7.990E-03	.3997	6.242E-03	.3122
22.69	.439	811.58	4.844E-03	.2423	6.631E-03	.3317	8.132E-03	.4068	6.341E-03	.3172
23.02	.445	812.75	4.876E-03	.2439	6.682E-03	.3343	8.200E-03	.4102	6.388E-03	.3196
23.34	.451	810.34	4.809E-03	.2406	6.578E-03	.3291	8.060E-03	.4032	6.291E-03	.3147
23.65	.457	810.56	4.815E-03	.2409	6.587E-03	.3295	8.073E-03	.4038	6.300E-03	.3151
23.97	.463	811.13	4.831E-03	.2417	6.612E-03	.3308	8.106E-03	.4055	6.323E-03	.3163
24.29	.469	809.70	4.764E-03	.2383	6.508E-03	.3255	7.966E-03	.3985	6.225E-03	.3114
24.60	.475	806.78	4.710E-03	.2356	6.425E-03	.3214	7.855E-03	.3929	6.147E-03	.3075

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
99	8	TILE INSERT	0.175	.010	.025	1.142E 06	3.163E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	323.5	1290	29.70	30.00	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0342	1.518	3789	3.044E-05	7.597E-08	1.518E 06	1.999E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
40.004	2.432	38.639	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	807.05	4.718E-03	.2360	6.437E-03	.3220	7.871E-03	.3937	6.158E-03	.3081
25.22	.487	804.14	4.637E-03	.2320	6.313E-03	.3158	7.706E-03	.3855	6.042E-03	.3022
25.53	.493	802.06	4.581E-03	.2291	6.227E-03	.3115	7.590E-03	.3797	5.961E-03	.2982
25.83	.499	796.15	4.422E-03	.2212	5.985E-03	.2994	7.271E-03	.3637	5.734E-03	.2868
26.14	.505	693.52	2.159E-03	.1080	2.755E-03	.1378	3.196E-03	.1599	2.664E-03	.1333

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
99	8	TILE INSERT	0.175	.010	.025	1.142E 06	3.163E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	323.5	1290	29.70	30.00	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0342	1.518	3789	3.044E-05	7.597E-08	1.518E 06	1.999E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
40.004	2.432	38.639	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.067	521.97	521.40	519.19	519.16	518.98	518.86	518.86	518.83	521.11	522.56
2.063	525.13	524.84	521.22	520.83	520.02	519.46	519.25	519.10	521.52	522.65
3.060	527.46	527.19	522.93	522.21	520.86	519.96	519.61	519.37	521.57	522.83
4.056	529.39	529.06	524.36	523.49	521.64	520.38	519.90	519.61	521.88	523.05
5.053	531.11	530.73	525.67	524.63	522.33	520.80	520.20	519.78	522.20	523.37
6.050	532.63	532.21	526.89	525.70	523.00	521.22	520.50	520.05	522.38	523.73
7.046	533.99	533.51	527.99	526.68	523.76	521.64	520.74	520.32	522.51	523.77
8.043	535.29	534.76	529.03	527.07	524.42	522.03	521.04	520.50	522.69	524.04
9.039	536.47	535.91	530.04	528.56	525.04	522.42	521.31	520.71	523.01	524.22
10.036	537.62	536.97	530.97	529.45	525.73	522.81	521.55	520.92	523.37	524.72
11.032	538.66	538.04	531.83	530.31	526.36	523.19	521.82	521.19	523.59	524.85
12.029	539.66	538.99	532.66	531.11	527.01	523.61	522.12	521.40	523.68	525.03
13.026	540.63	539.89	533.43	531.91	527.61	524.03	522.39	521.61	523.95	525.26
14.022	541.51	540.81	534.25	532.66	528.20	524.39	522.66	521.85	524.36	525.62
15.019	542.40	541.60	534.99	533.40	528.83	524.78	522.93	522.06	524.67	525.84
16.015	543.22	542.42	535.70	534.11	529.42	525.22	523.22	522.30	524.85	526.16
17.012	544.01	543.19	536.47	534.82	530.02	525.64	523.52	522.54	524.99	526.29
18.008	544.77	543.95	537.12	535.47	530.58	526.03	523.82	522.75	525.30	526.60
19.005	545.48	544.66	537.80	536.12	531.11	526.42	524.12	522.99	525.66	526.83
20.002	546.18	545.36	538.45	536.74	531.71	526.83	524.39	523.25	525.98	527.14
20.998	546.89	546.06	539.07	537.39	532.24	527.25	524.72	523.52	526.16	527.28

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
99	8	TILE INSERT	0.175	.010	.025	1.142E 06	3.163E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	323.5	1290	29.70	30.00	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0342	1.518	3789	3.044E-05	7.597E-08	1.518E 06	1.999E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
40.004	2.432	38.639	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.995	547.53	546.71	539.72	537.98	532.77	527.67	525.02	523.76	526.34	527.46
22.991	548.17	547.32	540.34	538.60	533.28	528.08	525.34	524.00	526.69	527.73
23.988	548.79	547.97	540.90	539.16	533.81	528.47	525.61	524.24	527.10	528.13
24.984	549.37	548.55	541.48	539.72	534.34	528.86	525.94	524.51	527.37	528.40
25.981	549.99	549.14	542.04	540.28	534.85	529.27	526.27	524.81	527.59	528.58
26.978	550.54	549.69	542.57	540.84	535.35	529.69	526.59	525.08	527.82	528.85
27.974	551.12	550.28	543.10	541.34	535.82	530.10	526.89	525.28	528.22	529.16
28.971	551.65	550.80	543.63	541.87	536.29	530.49	527.22	525.55	528.67	529.57
29.967	552.20	551.33	544.22	542.40	536.77	530.88	527.55	525.85	528.85	529.79
30.964	552.73	551.88	544.72	542.90	537.24	531.29	527.87	526.15	529.07	530.15
31.960	553.25	552.41	545.19	543.39	537.71	531.68	528.20	526.42	529.43	530.33
32.957	553.78	552.93	545.65	543.89	538.18	532.06	528.53	526.68	529.88	530.82
33.954	554.30	553.43	546.18	544.39	538.63	532.45	528.86	526.98	530.24	531.18
34.950	554.80	553.92	546.71	544.86	539.07	532.86	529.18	527.31	530.46	531.49
35.947	555.26	554.42	547.15	545.33	539.51	533.25	529.51	527.61	530.78	531.67
36.943	555.76	554.88	547.65	545.80	539.92	533.63	529.84	527.87	531.09	531.99
37.940	556.25	555.35	548.03	546.24	540.37	533.99	530.16	528.14	531.45	532.34
38.621	556.51	555.67	548.35	546.53	540.69	534.25	530.40	528.35	531.72	532.57
39.936	556.51	555.82	548.49	546.68	540.81	534.37	530.52	528.47	531.81	532.57
40.933	556.43	556.19	548.90	547.15	541.22	534.76	530.85	528.77	531.85	532.75
40.930	556.57	556.63	549.31	547.59	541.66	535.14	531.14	529.09	532.08	532.88
41.926	556.75	557.04	549.72	548.00	542.10	535.47	531.50	529.36	532.43	533.28

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
99.	8	TILE INSERT	0.175	.010	.025	1.142E 06	3.163E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	323.5	1290	29.70	30.00	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0342	1.518	3789	3.044E-05	7.597E-08	1.518E 06	1.999E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
40.004	2.432	38.639	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
99	8	TILE INSERT	0.175	.010	.025	1.142E 06	3.163E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	323.5	1290	29.70	30.00	30.00	.30	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0342	1.518	3789	3.044E-05	7.597E-08	1.518E 06	1.999E-02	78

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
40.004	2.432	38.639	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
9.130	1
15.855	2
39.566	3

NASA/RI 0H69
V418-E9A

AEDC (ARO.INC.) ARNOLD AFS. TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
100	8	TILE INSERT	0.175	.010	.025	9.652E 05	2.672E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	267.5	1275	29.76	30.01	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.4	.0285	1.263	3766	2.563E-05	7.523E-08	1.283E 06	1.819E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
22.052	2.423	20.692	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	571.80	5.555E-04	.0305	6.786E-04	.0373	7.631E-04	.0419	6.604E-04	.0363
10.33	.200	621.90	1.448E-03	.0796	1.799E-03	.0989	2.047E-03	.1125	1.746E-03	.0960
10.71	.207	642.53	1.869E-03	.1027	2.341E-03	.1287	2.679E-03	.1473	2.270E-03	.1248
11.10	.214	655.44	2.151E-03	.1182	2.708E-03	.1489	3.112E-03	.1711	2.624E-03	.1442
11.48	.222	673.27	2.577E-03	.1417	3.270E-03	.1798	3.779E-03	.2077	3.165E-03	.1740
11.85	.229	684.22	2.854E-03	.1569	3.640E-03	.2001	4.221E-03	.2320	3.519E-03	.1935
12.23	.236	693.40	3.093E-03	.1700	3.962E-03	.2178	4.609E-03	.2534	3.828E-03	.2104
12.60	.244	696.25	3.164E-03	.1742	4.064E-03	.2234	4.733E-03	.2602	3.926E-03	.2158
12.98	.251	697.85	3.211E-03	.1765	4.122E-03	.2266	4.804E-03	.2641	3.982E-03	.2189
13.35	.258	703.97	3.377E-03	.1856	4.348E-03	.2390	5.078E-03	.2791	4.198E-03	.2307
13.72	.265	708.89	3.512E-03	.1930	4.533E-03	.2492	5.305E-03	.2916	4.375E-03	.2405
14.08	.272	715.48	3.696E-03	.2032	4.787E-03	.2632	5.617E-03	.3088	4.618E-03	.2539
14.45	.279	720.93	3.850E-03	.2116	5.001E-03	.2749	5.881E-03	.3233	4.822E-03	.2651
14.81	.286	723.81	3.934E-03	.2163	5.118E-03	.2814	6.026E-03	.3312	4.934E-03	.2712
15.17	.293	725.29	3.977E-03	.2186	5.179E-03	.2847	6.100E-03	.3353	4.991E-03	.2744
15.53	.300	726.84	4.022E-03	.2211	5.242E-03	.2882	6.179E-03	.3397	5.052E-03	.2777
15.89	.307	727.45	4.040E-03	.2221	5.267E-03	.2895	6.210E-03	.3414	5.075E-03	.2790
16.25	.314	727.43	4.040E-03	.2221	5.266E-03	.2895	6.209E-03	.3413	5.075E-03	.2790
16.60	.321	729.26	4.093E-03	.2250	5.342E-03	.2937	6.303E-03	.3465	5.147E-03	.2829
16.96	.328	734.24	4.241E-03	.2331	5.551E-03	.3051	6.584E-03	.3608	5.345E-03	.2938
17.31	.335	735.74	4.286E-03	.2356	5.614E-03	.3086	6.643E-03	.3652	5.406E-03	.2972

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
100	8	TILE INSERT	0.175	.010	.025	9.652E 05	2.672E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	267.5	1275	29.76	30.01	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.4	.0285	1.263	3766	2.563E-05	7.523E-08	1.283E 06	1.819E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
22.052	2.423	20.692	500

X (IN)	X/L	TW, (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	735.39	4.276E-03	.2350	5.599E-03	.3078	6.625E-03	.3642	5.392E-03	.2964
18.01	.348	735.42	4.277E-03	.2351	5.601E-03	.3079	6.626E-03	.3643	5.393E-03	.2965
18.35	.355	735.42	4.277E-03	.2351	5.601E-03	.3079	6.626E-03	.3643	5.393E-03	.2965
18.70	.361	735.05	4.264E-03	.2338	5.585E-03	.3061	6.585E-03	.3620	5.362E-03	.2948
19.04	.368	735.14	4.269E-03	.2347	5.589E-03	.3072	6.612E-03	.3635	5.382E-03	.2959
19.38	.375	736.92	4.322E-03	.2376	5.665E-03	.3114	6.707E-03	.3687	5.455E-03	.2998
19.72	.381	735.97	4.294E-03	.2360	5.624E-03	.3092	6.656E-03	.3659	5.416E-03	.2977
20.06	.388	735.45	4.278E-03	.2352	5.602E-03	.3080	6.628E-03	.3644	5.395E-03	.2965
20.39	.394	736.68	4.315E-03	.2372	5.655E-03	.3109	6.694E-03	.3680	5.445E-03	.2993
20.73	.401	738.86	4.381E-03	.2408	5.749E-03	.3160	6.812E-03	.3745	5.534E-03	.3042
21.06	.407	740.85	4.442E-03	.2442	5.835E-03	.3208	6.921E-03	.3804	5.616E-03	.3087
21.39	.413	741.79	4.471E-03	.2457	5.876E-03	.3230	6.972E-03	.3833	5.655E-03	.3109
21.72	.420	741.79	4.471E-03	.2458	5.876E-03	.3230	6.973E-03	.3833	5.655E-03	.3109
22.05	.426	740.50	4.431E-03	.2436	5.820E-03	.3199	6.902E-03	.3794	5.602E-03	.3079
22.37	.432	739.87	4.412E-03	.2425	5.793E-03	.3184	6.868E-03	.3775	5.576E-03	.3065
22.69	.439	741.29	4.456E-03	.2449	5.855E-03	.3218	6.945E-03	.3818	5.635E-03	.3097
23.02	.445	741.49	4.462E-03	.2453	5.863E-03	.3223	6.956E-03	.3824	5.643E-03	.3102
23.34	.451	738.91	4.383E-03	.2409	5.752E-03	.3162	6.816E-03	.3747	5.537E-03	.3044
23.65	.457	739.10	4.389E-03	.2413	5.760E-03	.3166	6.826E-03	.3752	5.544E-03	.3048
23.97	.463	740.05	4.418E-03	.2428	5.801E-03	.3189	6.878E-03	.3781	5.584E-03	.3069
24.29	.469	738.87	4.382E-03	.2409	5.750E-03	.3161	6.814E-03	.3746	5.535E-03	.3043
24.60	.475	736.61	4.314E-03	.2371	5.653E-03	.3108	6.692E-03	.3679	5.443E-03	.2992

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
100	8	TILE INSERT	0.175	.010	.025	9.652E 05	2.672E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	267.5	1275	29.76	30.01	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.4	.0285	1.263	3766	2.563E-05	7.523E-08	1.283E 06	1.819E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
22.052	2.423	20.692	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.51	.482	737.21	4.332E-03	.2381	5.679E-03	.3122	6.724E-03	.3696	5.468E-03	.3006
25.22	.487	736.48	4.322E-03	.2376	5.665E-03	.3114	6.707E-03	.3687	5.454E-03	.2998
25.53	.493	733.16	4.211E-03	.2315	5.507E-03	.3027	6.509E-03	.3578	5.304E-03	.2916
25.83	.499	730.71	4.138E-03	.2275	5.404E-03	.2971	6.381E-03	.3508	5.206E-03	.2862
24.14	.505	701.84	3.321E-03	.1825	4.271E-03	.2348	4.985E-03	.2740	4.124E-03	.2267

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
100	8	TILE INSERT	0.175	.010	.025	9.652E 05	2.672E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	267.5	1275	29.76	30.01	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.4	.0285	1.263	3766	2.563E-05	7.523E-08	1.283E 06	1.819E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
22.052	2.423	20.692	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.063	518.89	519.23	515.46	517.36	517.39	516.91	516.64	516.67	526.25	526.65
2.059	521.88	522.45	517.42	518.95	518.26	517.51	517.06	516.94	526.65	526.96
3.056	524.06	524.60	518.98	520.26	519.10	517.99	517.42	517.24	526.83	527.32
4.052	525.85	526.39	520.32	521.46	519.84	518.47	517.78	517.57	527.05	527.55
5.049	527.22	527.93	521.55	522.57	520.50	518.92	518.11	517.84	527.14	527.64
6.046	528.59	529.30	522.57	523.58	521.28	519.34	518.41	518.08	527.41	527.86
7.042	529.87	530.59	523.94	524.51	521.94	519.75	518.74	518.32	527.77	528.31
8.039	531.05	531.77	524.36	525.43	522.63	520.17	519.01	518.56	528.09	528.54
9.035	532.18	532.99	524.72	526.30	523.25	520.56	519.31	518.83	528.27	528.76
10.032	533.25	533.96	525.37	527.16	523.91	521.01	519.61	519.10	528.45	528.94
11.028	534.28	534.96	526.18	527.99	524.57	521.40	519.87	519.34	528.67	529.25
12.025	535.26	535.91	526.95	528.80	525.19	521.79	520.17	519.55	529.12	529.66
13.022	536.21	536.83	527.73	529.60	525.82	522.21	520.47	519.81	529.34	529.79
14.018	537.12	537.71	528.35	530.40	526.45	522.66	520.77	520.11	529.57	530.10
15.015	537.98	538.57	529.15	531.14	527.04	523.08	521.10	520.35	529.66	530.28
16.011	538.80	539.39	530.16	531.88	527.64	523.49	521.40	520.59	530.10	530.60
17.008	539.66	540.23	531.17	532.60	528.26	523.88	521.70	520.83	530.37	530.96
18.004	540.45	541.01	532.30	533.34	528.83	524.30	522.00	521.13	530.64	531.14
19.001	541.25	541.72	533.40	534.02	529.39	524.75	522.36	521.43	530.73	531.36
19.998	542.01	542.48	534.28	534.70	529.99	525.16	522.66	521.67	530.96	531.54
20.674	542.54	542.98	534.88	535.14	530.37	525.46	522.87	521.82	531.40	531.90

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
100	8	TILE INSERT	0.175	.010	.025	9.652E 05	2.672E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	267.5	1275	29.76	30.01	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.4	.0285	1.263	3766	2.563E-05	7.523E-08	1.283E 06	1.819E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
22.052	2.423	20.692	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
20.994	542.78	543.19	535.14	535.32	530.55	525.58	522.99	521.91	531.40	531.94
21.991	543.54	543.80	535.88	536.00	531.11	526.03	523.28	522.18	531.63	532.25
22.987	544.28	544.60	536.62	536.65	531.68	526.45	523.61	522.48	531.85	532.39
23.984	544.95	545.27	537.36	537.27	532.24	526.89	523.94	522.78	532.03	532.61

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
100	8	TILE INSERT	0.175	.010	.025	9.652E 05	2.672E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	267.5	1275	29.76	30.01	30.00	.24	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.4	.0285	1.263	3766	2.563E-05	7.523E-08	1.283E 06	1.819E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
22.052	2.423	20.692	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.523	1
11.664	2
20.615	3

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
101	8	TILE INSERT	0.175	.010	.025	9.523E 05	2.636E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.1	1282	39.62	39.99	30.00	-9.62	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0284	1.256	3776	2.535E-05	7.565E-08	1.265E 06	1.816E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.611	2.437	14.243	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	560.42	5.013E-04	.0276	6.096E-04	.0336	6.834E-04	.0376	5.678E-04	.0313
8.15	.158	573.56	7.482E-04	.0412	9.136E-04	.0503	1.027E-03	.0566	8.497E-04	.0468
8.60	.166	585.51	9.857E-04	.0543	1.208E-03	.0665	1.362E-03	.0750	1.122E-03	.0618
9.05	.175	602.22	1.338E-03	.0737	1.649E-03	.0908	1.866E-03	.1027	1.528E-03	.0841
9.49	.183	703.18	4.062E-03	.2237	5.218E-03	.2873	6.084E-03	.3350	4.758E-03	.2620
9.93	.192	663.51	2.848E-03	.1568	3.593E-03	.1979	4.134E-03	.2276	3.300E-03	.1817
10.37	.200	676.49	3.230E-03	.1778	4.098E-03	.2256	4.734E-03	.2606	3.754E-03	.2067
10.81	.209	696.30	3.842E-03	.2115	4.919E-03	.2708	5.720E-03	.3150	4.490E-03	.2473
11.24	.217	704.08	4.092E-03	.2253	5.259E-03	.2896	6.134E-03	.3377	4.794E-03	.2640
11.67	.226	710.55	4.305E-03	.2370	5.550E-03	.3056	6.489E-03	.3573	5.053E-03	.2782
12.10	.234	718.17	4.560E-03	.2511	5.902E-03	.3250	6.921E-03	.3811	5.365E-03	.2954
12.52	.242	722.56	4.710E-03	.2593	6.111E-03	.3365	7.178E-03	.3953	5.549E-03	.3056
12.94	.250	726.48	4.846E-03	.2668	6.300E-03	.3469	7.412E-03	.4082	5.716E-03	.3148
13.36	.258	730.09	4.972E-03	.2738	6.477E-03	.3566	7.632E-03	.4202	5.872E-03	.3233
13.78	.266	731.37	5.017E-03	.2763	6.540E-03	.3601	7.711E-03	.4246	5.928E-03	.3264
14.19	.274	734.25	5.119E-03	.2819	6.684E-03	.3681	7.890E-03	.4345	6.055E-03	.3334
14.60	.282	738.42	5.269E-03	.2901	6.896E-03	.3797	8.155E-03	.4490	6.240E-03	.3436
15.01	.290	739.65	5.314E-03	.2926	6.959E-03	.3832	8.234E-03	.4534	6.296E-03	.3467
15.41	.298	738.30	5.265E-03	.2899	6.890E-03	.3794	8.147E-03	.4486	6.235E-03	.3433
15.81	.306	739.40	5.305E-03	.2921	6.946E-03	.3825	8.218E-03	.4525	6.285E-03	.3461
16.21	.313	740.82	5.356E-03	.2949	7.020E-03	.3865	8.310E-03	.4576	6.349E-03	.3496

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
101	8	TILE INSERT	0.175	.010	.025	9.523E 05	2.636E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.1	1282	39.62	39.99	30.00	-9.62	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0284	1.256	3776	2.535E-05	7.565E-08	1.265E 06	1.816E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.611	2.437	14.243	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	741.26	5.372E-03	.2958	7.043E-03	.3878	8.339E-03	.4592	6.369E-03	.3507
17.00	.329	744.37	5.486E-03	.3021	7.205E-03	.3967	8.543E-03	.4704	6.511E-03	.3585
17.39	.336	745.51	5.529E-03	.3044	7.265E-03	.4000	8.619E-03	.4746	6.564E-03	.3614
17.77	.344	744.41	5.488E-03	.3022	7.207E-03	.3969	8.546E-03	.4706	6.513E-03	.3586
18.16	.351	744.28	5.483E-03	.3019	7.201E-03	.3965	8.538E-03	.4701	6.507E-03	.3583
18.54	.358	744.46	5.490E-03	.3023	7.210E-03	.3970	8.550E-03	.4708	6.516E-03	.3588
18.92	.366	743.36	5.450E-03	.3001	7.153E-03	.3939	8.478E-03	.4668	6.466E-03	.3560
19.29	.373	744.30	5.485E-03	.3020	7.203E-03	.3966	8.540E-03	.4702	6.509E-03	.3584
19.66	.380	744.47	5.491E-03	.3024	7.212E-03	.3971	8.551E-03	.4709	6.517E-03	.3588
20.03	.387	742.88	5.433E-03	.2991	7.128E-03	.3925	8.447E-03	.4651	6.444E-03	.3548
20.40	.394	744.51	5.493E-03	.3024	7.214E-03	.3972	8.554E-03	.4710	6.519E-03	.3590
20.76	.401	746.25	5.557E-03	.3060	7.306E-03	.4023	8.670E-03	.4774	6.599E-03	.3634
21.12	.408	748.30	5.633E-03	.3102	7.415E-03	.4083	8.808E-03	.4850	6.695E-03	.3686
21.48	.415	750.31	5.709E-03	.3143	7.524E-03	.4143	8.945E-03	.4926	6.789E-03	.3738
21.84	.422	748.93	5.657E-03	.3115	7.449E-03	.4102	8.851E-03	.4874	6.724E-03	.3703
22.19	.429	746.27	5.558E-03	.3061	7.308E-03	.4024	8.673E-03	.4775	6.601E-03	.3635
22.54	.436	746.65	5.573E-03	.3068	7.328E-03	.4035	8.698E-03	.4789	6.619E-03	.3645
22.88	.442	748.93	5.657E-03	.3115	7.449E-03	.4102	8.852E-03	.4874	6.725E-03	.3703
23.23	.449	747.76	5.614E-03	.3091	7.387E-03	.4068	8.773E-03	.4831	6.671E-03	.3673
23.57	.456	745.79	5.541E-03	.3051	7.283E-03	.4010	8.641E-03	.4758	6.579E-03	.3623
23.91	.462	746.68	5.574E-03	.3069	7.330E-03	.4036	8.701E-03	.4791	6.621E-03	.3645
24.24	.469	747.25	5.595E-03	.3081	7.360E-03	.4053	8.739E-03	.4812	6.647E-03	.3660

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
101	8	TILE INSERT	0.175	.010	.025	9.523E 05	2.636E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.1	1282	39.62	39.99	30.00	-9.62	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0284	1.256	3776	2.535E-05	7.565E-08	1.265E 06	1.816E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.611	2.437	14.243	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	745.18	5.519E-03	.3039	7.251E-03	.3993	8.601E-03	.4736	6.551E-03	.3607
24.90	.481	745.46	5.529E-03	.3045	7.266E-03	.4001	8.620E-03	.4746	6.564E-03	.3615
25.23	.488	747.52	5.606E-03	.3087	7.376E-03	.4061	8.758E-03	.4823	6.660E-03	.3667
25.55	.494	744.45	5.492E-03	.3024	7.213E-03	.3972	8.553E-03	.4709	6.518E-03	.3589
25.87	.500	742.02	5.403E-03	.2975	7.086E-03	.3902	8.393E-03	.4622	6.407E-03	.3528

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
101	8	TILE INSERT	0.175	.010	.025	9.523E 05	2.636E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.1	1282	39.62	39.99	30.00	-9.62	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0284	1.256	3776	2.535E-05	7.565E-08	1.265E 06	1.816E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.611	2.437	14.243	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.069	522.27	522.12	520.47	520.59	520.50	519.99	519.69	519.69	517.82	518.86
2.065	525.10	525.40	522.72	522.45	521.70	520.77	520.23	520.08	518.63	519.85
3.062	527.19	527.55	524.45	523.94	522.69	521.40	520.74	520.50	519.49	520.75
4.058	528.92	529.27	525.94	525.22	523.55	522.00	521.19	520.86	520.39	521.84
5.055	530.43	530.79	527.25	526.33	524.12	522.54	521.58	521.16	521.52	522.92
6.052	531.83	532.15	528.44	527.40	525.13	523.05	521.97	521.52	522.69	524.13
7.048	533.13	533.40	529.57	528.41	525.88	523.55	522.36	521.85	523.64	525.08
8.045	534.31	534.55	530.64	529.36	526.62	524.03	522.72	522.21	524.54	525.98
9.041	535.47	535.67	531.68	530.28	527.34	524.51	523.08	522.51	525.75	527.14
10.038	536.56	536.71	532.63	531.17	528.02	524.99	523.43	522.81	526.74	528.18
11.034	537.62	537.71	533.57	532.03	528.71	525.43	523.79	523.11	527.82	529.21
12.031	538.60	538.54	534.49	532.86	529.36	525.91	524.15	523.46	528.76	530.15
13.028	539.54	539.48	535.35	533.60	530.04	526.39	524.51	523.76	529.61	531.05
14.024	540.48	540.42	536.21	534.40	530.70	526.83	524.87	524.06	530.73	532.12
14.225	540.63	540.63	536.38	534.52	530.82	526.92	524.90	524.12	530.96	532.34
15.021	541.40	541.37	537.03	535.08	531.35	527.31	525.19	524.36	531.81	533.06
16.017	542.22	542.25	537.83	535.82	531.97	527.76	525.58	524.69	532.70	534.18
17.014	543.07	543.07	538.63	536.59	532.51	528.23	525.94	524.99	533.64	535.03

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
101	8	TILE INSERT	0.175	.010	.025	9.523E 05	2.636E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	266.1	1282	39.62	39.99	30.00	-9.62	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.0	.0284	1.256	3776	2.535E-05	7.565E-08	1.265E 06	1.816E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.611	2.437	14.243	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.447	1
9.014	2
14.180	3

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ERROR IN LOGF  A ≤ 0        A = 6006365103351457 CALL FROM 36653
ERROR IN LOGF  A ≤ 0        A = 6006334463234603 CALL FROM 36653
ERROR IN LOGF  A ≤ 0        A = 6010271610641627 CALL FROM 36653
ERROR IN LOGF  A ≤ 0        A = 6007002533002145 CALL FROM 36653
ERROR IN LOGF  A ≤ 0        A = 6006024535016120 CALL FROM 36653
ERROR IN LOGF  A ≤ 0        A = 6006024542427025 CALL FROM 36653
ERROR IN LOGF  A ≤ 0        A = 6007043033510071 CALL FROM 36653
ERROR IN LOGF  A ≤ 0        A = 6007331454217250 CALL FROM 36653
ERROR IN LOGF  A ≤ 0        A = 6006273764335336 CALL FROM 36653
ERROR IN LOGF  A ≤ 0        A = 6005346760115110 CALL FROM 36653
ERROR IN LOGF  A ≤ 0        A = 6005177651373176 CALL FROM 36653
ERROR IN LOGF  A ≤ 0        A = 6005142252172362 CALL FROM 36653
ERROR IN LOGF  A ≤ 0        A = 6005151615337166 CALL FROM 36653
ERROR IN LOGF  A ≤ 0        A = 6005177666314126 CALL FROM 36653
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L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
103	8	TILE INSERT	0.175	.010	.025	7.655E 05	2.119E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.3	1274	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0227	1.003	3765	2.037E-05	7.538E-08	1.017E 06	1.621E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
35.254	2.441	33.884	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	581.29	5.544E-04	.0342	6.791E-04	.0419	7.651E-04	.0472	6.606E-04	.0407
10.33	.200	618.32	1.090E-03	.0672	1.353E-03	.0834	1.538E-03	.0949	1.313E-03	.0810
10.71	.207	627.74	1.235E-03	.0762	1.539E-03	.0949	1.754E-03	.1082	1.493E-03	.0921
11.10	.214	633.39	1.325E-03	.0817	1.654E-03	.1020	1.888E-03	.1165	1.605E-03	.0990
11.48	.222	643.55	1.492E-03	.0920	1.870E-03	.1153	2.141E-03	.1320	1.813E-03	.1118
11.85	.229	654.46	1.679E-03	.1035	2.113E-03	.1303	2.427E-03	.1497	2.047E-03	.1263
12.23	.236	667.66	1.922E-03	.1185	2.433E-03	.1500	2.806E-03	.1730	2.355E-03	.1452
12.60	.244	676.58	2.095E-03	.1292	2.662E-03	.1642	3.079E-03	.1899	2.575E-03	.1589
12.98	.251	682.03	2.203E-03	.1359	2.807E-03	.1731	3.252E-03	.2006	2.714E-03	.1674
13.35	.258	688.90	2.342E-03	.1444	2.993E-03	.1846	3.477E-03	.2145	2.893E-03	.1784
13.72	.265	695.74	2.379E-03	.1467	3.044E-03	.1878	3.538E-03	.2182	2.942E-03	.1815
14.08	.272	698.39	2.536E-03	.1564	3.257E-03	.2009	3.796E-03	.2341	3.146E-03	.1940
14.45	.279	704.76	2.781E-03	.1715	3.592E-03	.2215	4.205E-03	.2593	3.466E-03	.2138
14.81	.286	714.67	2.888E-03	.1781	3.740E-03	.2307	4.387E-03	.2706	3.608E-03	.2225
15.17	.293	717.98	2.962E-03	.1827	3.842E-03	.2370	4.512E-03	.2783	3.705E-03	.2285
15.53	.300	721.40	3.038E-03	.1874	3.946E-03	.2435	4.644E-03	.2864	3.807E-03	.2348
15.89	.307	723.73	3.091E-03	.1906	4.022E-03	.2481	4.735E-03	.2920	3.877E-03	.2391
16.25	.314	725.82	3.138E-03	.1936	4.088E-03	.2522	4.817E-03	.2971	3.940E-03	.2430
16.60	.321	729.23	3.217E-03	.1984	4.198E-03	.2589	4.954E-03	.3056	4.045E-03	.2495
16.96	.328	734.56	3.341E-03	.2060	4.373E-03	.2697	5.173E-03	.3190	4.211E-03	.2598
17.31	.335	737.41	3.408E-03	.2102	4.468E-03	.2756	5.292E-03	.3264	4.302E-03	.2653

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
103	8	TILE INSERT	0.175	.010	.025	7.655E 05	2.119E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.3	1274	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0227	1.003	3765	2.037E-05	7.538E-08	1.017E 06	1.621E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
35.254	2.441	33.884	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	738.47	3.433E-03	.2117	4.504E-03	.2778	5.337E-03	.3292	4.336E-03	.2675
18.01	.348	738.72	3.439E-03	.2121	4.513E-03	.2783	5.347E-03	.3298	4.344E-03	.2679
18.35	.355	738.73	3.439E-03	.2121	4.513E-03	.2784	5.348E-03	.3299	4.345E-03	.2680
18.70	.361	738.84	3.442E-03	.2123	4.517E-03	.2786	5.353E-03	.3301	4.348E-03	.2682
19.04	.368	740.40	3.479E-03	.2146	4.570E-03	.2819	5.419E-03	.3343	4.398E-03	.2713
19.38	.375	741.65	3.509E-03	.2164	4.613E-03	.2845	5.473E-03	.3376	4.439E-03	.2738
19.72	.381	740.61	3.484E-03	.2149	4.577E-03	.2823	5.429E-03	.3348	4.405E-03	.2717
20.06	.388	742.71	3.487E-03	.2151	4.581E-03	.2825	5.433E-03	.3351	4.409E-03	.2719
20.39	.394	742.57	3.531E-03	.2178	4.644E-03	.2865	5.513E-03	.3400	4.469E-03	.2757
20.73	.401	744.28	3.572E-03	.2203	4.703E-03	.2901	5.588E-03	.3447	4.525E-03	.2791
21.06	.407	745.57	3.604E-03	.2223	4.748E-03	.2929	5.645E-03	.3482	4.568E-03	.2818
21.39	.413	747.64	3.654E-03	.2254	4.821E-03	.2973	5.736E-03	.3538	4.637E-03	.2860
21.72	.420	746.49	3.626E-03	.2237	4.781E-03	.2949	5.685E-03	.3507	4.599E-03	.2836
22.05	.426	744.64	3.581E-03	.2209	4.716E-03	.2909	5.604E-03	.3456	4.537E-03	.2799
22.37	.432	744.74	3.584E-03	.2210	4.720E-03	.2911	5.608E-03	.3459	4.541E-03	.2801
22.69	.439	746.73	3.632E-03	.2240	4.785E-03	.2954	5.696E-03	.3513	4.607E-03	.2841
23.02	.445	746.69	3.631E-03	.2240	4.784E-03	.2953	5.695E-03	.3512	4.606E-03	.2841
23.34	.451	744.12	3.569E-03	.2201	4.698E-03	.2898	5.581E-03	.3443	4.521E-03	.2788
23.65	.457	744.46	3.577E-03	.2206	4.710E-03	.2905	5.596E-03	.3452	4.532E-03	.2795
23.97	.463	745.05	3.592E-03	.2216	4.732E-03	.2919	5.624E-03	.3469	4.553E-03	.2808
24.29	.469	743.63	3.557E-03	.2194	4.681E-03	.2887	5.560E-03	.3429	4.505E-03	.2778
24.60	.475	741.96	3.517E-03	.2169	4.624E-03	.2852	5.488E-03	.3385	4.450E-03	.2745

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
103	8	TILE INSERT	0.175	.010	.025	7.655E 05	2.119E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.3	1274	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0227	1.003	3765	2.037E-05	7.538E-08	1.017E 06	1.621E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
35.254	2.441	33.884	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	743.41	3.552E-03	.2191	4.674E-03	.2883	5.551E-03	.3424	4.497E-03	.2774
25.22	.487	742.03	3.519E-03	.2170	4.626E-03	.2854	5.491E-03	.3387	4.452E-03	.2746
25.53	.493	739.44	3.457E-03	.2132	4.538E-03	.2799	5.379E-03	.3318	4.368E-03	.2694
25.83	.499	735.80	3.371E-03	.2079	4.416E-03	.2723	5.220E-03	.3223	4.252E-03	.2622
26.14	.505	684.92	2.262E-03	.1395	2.886E-03	.1780	3.347E-03	.2065	2.790E-03	.1721

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
103	8	TILE INSERT	0.175	.010	.025	7.655E 05	2.119E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.3	1274	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	RREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0227	1.003	3765	2.037E-05	7.538E-08	1.017E 06	1.621E-02	73

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
35.254	2.441	33.884	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.071	521.58	521.07	519.40	519.72	520.17	521.07	521.64	522.15	522.87	524.00
2.067	524.18	523.89	521.22	521.13	521.13	521.58	522.00	522.42	523.01	524.00
3.064	526.00	525.79	522.66	522.30	521.85	522.00	522.30	522.63	523.05	524.04
4.060	527.64	527.34	523.88	523.31	522.48	522.39	522.57	522.84	523.32	524.22
5.057	528.98	528.68	525.02	524.27	523.11	522.75	522.84	523.05	523.50	524.49
6.054	530.16	529.90	526.03	525.13	523.70	523.11	523.11	523.25	523.46	524.54
7.050	531.26	530.97	526.98	525.97	524.27	523.46	523.31	523.49	523.55	524.58
8.047	532.30	531.97	527.90	526.74	524.84	523.79	523.58	523.67	523.73	524.67
9.043	533.28	532.92	528.74	527.52	525.37	524.12	523.79	523.82	523.95	524.94
10.040	534.17	533.81	529.54	528.23	525.94	524.48	524.03	524.03	524.18	525.08
11.036	534.99	534.67	530.31	528.92	526.48	524.81	524.27	524.24	524.18	525.12
12.033	535.79	535.44	531.08	529.60	526.98	525.13	524.51	524.45	524.22	525.21
13.030	536.50	536.21	531.77	530.25	527.49	525.46	524.72	524.60	524.36	525.35
14.026	537.27	536.92	532.45	530.88	527.99	525.79	524.96	524.81	524.67	525.66
15.023	537.98	537.59	533.10	531.50	528.50	526.15	525.19	524.99	524.81	525.71
16.019	538.63	538.27	533.75	532.06	528.98	526.48	525.46	525.22	524.76	525.80
17.016	539.25	538.86	534.37	532.63	529.45	526.83	525.70	525.43	524.90	525.75
18.012	539.69	539.51	534.96	533.19	529.96	527.16	525.94	525.58	525.08	526.07
19.009	540.25	540.10	535.56	533.75	530.43	527.49	526.18	525.79	525.39	526.25
20.006	540.81	540.66	536.12	534.28	530.88	527.82	526.45	526.03	525.44	526.38
21.002	541.34	541.22	536.68	534.82	531.35	528.17	526.71	526.24	525.44	526.38

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
103	8	TILE INSERT	0.175	.010	.025	7.655E 05	2.119E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.3	1274	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0227	1.003	3765	2.037E-05	7.538E-08	1.017E 06	1.621E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
35.254	2.441	33.884	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.999	541.87	541.78	537.24	535.32	531.83	528.53	526.95	526.42	525.66	526.47
22.995	542.40	542.31	537.77	535.82	532.27	528.86	527.22	526.62	525.84	526.74
23.992	542.92	542.87	538.30	536.35	532.71	529.18	527.49	526.83	526.02	526.92
24.988	543.45	543.37	538.83	536.83	533.16	529.57	527.76	527.10	526.20	527.10
25.985	543.95	543.92	539.33	537.33	533.60	529.93	528.02	527.34	526.20	527.10
26.982	544.45	544.42	539.84	537.83	534.08	530.28	528.29	527.52	526.34	527.23
27.978	544.95	544.92	540.34	538.30	534.49	530.61	528.56	527.76	526.69	527.41
28.975	545.42	545.39	540.84	538.80	534.94	530.97	528.83	527.99	526.87	527.64
29.971	545.89	545.92	541.34	539.28	535.38	531.32	529.09	528.26	526.87	527.82
30.968	546.36	546.39	541.81	539.72	535.79	531.71	529.39	528.50	526.92	527.73
31.964	546.83	546.83	542.28	540.19	536.21	532.00	529.66	528.71	527.19	528.00
32.961	547.30	547.35	542.75	540.63	536.65	532.36	529.96	528.95	527.37	528.22
33.866	547.70	547.76	543.16	541.04	537.00	532.66	530.19	529.18	527.32	528.18
33.958	547.73	547.82	543.19	541.07	537.06	532.69	530.22	529.21	527.59	528.40
34.954	548.20	548.29	543.69	541.54	537.48	533.07	530.52	529.48	527.59	528.40
35.951	548.61	548.76	544.13	542.01	537.89	533.40	530.82	529.72	527.68	528.49
36.947	549.11	549.23	544.60	542.40	538.39	533.72	531.05	529.93	527.86	528.67

C-

NASA/RI 0H62
V41H-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
103	8	TILE INSERT	0.175	.010	.025	7.655E 05	2.119E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	211.3	1274	29.81	30.00	30.00	.19	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0227	1.003	3765	2.037E-05	7.538E-08	1.017E 06	1.621E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
35.254	2.441	33.884	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
9.176	1
19.332	2
33.912	3

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
104	8	TILE INSERT	0.175	.010	.025	5.731E 05	1.587E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	156.4	1267	39.46	39.67	30.00	-9.46	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0170	.747	3754	1.525E-05	7.516E-08	7.616E 05	1.398E-02	65

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
41.284	2.455	39.906	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.933TO)	H(.933TO)/HREF
7.69	.149	562.26	3.875E-04	.0277	4.724E-04	.0338	5.305E-04	.0380	4.403E-04	.0315
8.15	.158	571.67	4.969E-04	.0356	6.076E-04	.0435	6.838E-04	.0489	5.656E-04	.0405
8.60	.166	597.59	8.220E-04	.0588	1.014E-03	.0725	1.148E-03	.0821	9.407E-04	.0673
9.05	.175	655.47	1.695E-03	.1213	2.139E-03	.1531	2.461E-03	.1761	1.968E-03	.1408
9.49	.183	647.36	1.547E-03	.1107	1.944E-03	.1391	2.231E-03	.1596	1.791E-03	.1281
9.93	.192	619.92	1.116E-03	.0798	1.387E-03	.0992	1.578E-03	.1129	1.283E-03	.0918
10.37	.200	639.31	1.420E-03	.1016	1.779E-03	.1273	2.036E-03	.1457	1.640E-03	.1174
10.81	.209	662.87	1.806E-03	.1292	2.285E-03	.1635	2.634E-03	.1885	2.099E-03	.1502
11.24	.217	674.50	2.017E-03	.1443	2.565E-03	.1835	2.969E-03	.2124	2.352E-03	.1683
11.67	.226	683.68	2.189E-03	.1566	2.796E-03	.2000	3.246E-03	.2322	2.559E-03	.1831
12.10	.234	693.09	2.370E-03	.1696	3.041E-03	.2176	3.542E-03	.2535	2.774E-03	.1988
12.52	.242	701.09	2.528E-03	.1809	3.256E-03	.2330	3.805E-03	.2723	2.971E-03	.2126
12.94	.250	708.16	2.671E-03	.1911	3.453E-03	.2471	4.046E-03	.2895	3.146E-03	.2251
13.36	.258	711.26	2.734E-03	.1956	3.541E-03	.2534	4.154E-03	.2972	3.224E-03	.2307
13.78	.266	715.49	2.822E-03	.2019	3.663E-03	.2621	4.304E-03	.3080	3.332E-03	.2384
14.19	.274	721.86	2.956E-03	.2115	3.850E-03	.2755	4.537E-03	.3246	3.498E-03	.2503
14.60	.282	729.45	3.119E-03	.2232	4.081E-03	.2920	4.824E-03	.3452	3.701E-03	.2648
15.01	.290	734.59	3.232E-03	.2313	4.241E-03	.3035	5.025E-03	.3596	3.842E-03	.2749
15.41	.298	736.48	3.274E-03	.2343	4.301E-03	.3077	5.100E-03	.3650	3.894E-03	.2786
15.81	.306	742.54	3.365E-03	.2408	4.431E-03	.3171	5.265E-03	.3767	4.008E-03	.2868
16.21	.313	744.02	3.444E-03	.2464	4.545E-03	.3252	5.409E-03	.3870	4.107E-03	.2939

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
104	8	TILE INSERT	0.175	.010	.025	5.731E 05	1.587E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	156.4	1267	39.46	39.67	30.00	-9.46	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0170	.747	3754	1.525E-05	7.516E-08	7.616E 05	1.398E-02	65

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
41.284	2.455	39.906	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.933TO)	H(.933TO)/HREF
16.61	.321	745.54	3.479E-03	.2489	4.595E-03	.3288	5.473E-03	.3916	4.151E-03	.2970
17.00	.329	749.96	3.558E-03	.2546	4.709E-03	.3370	5.618E-03	.4020	4.251E-03	.3042
17.39	.336	752.24	3.588E-03	.2567	4.752E-03	.3400	5.673E-03	.4059	4.288E-03	.3068
17.77	.344	750.74	3.600E-03	.2576	4.770E-03	.3413	5.695E-03	.4075	4.303E-03	.3079
18.16	.351	751.29	3.612E-03	.2585	4.788E-03	.3426	5.719E-03	.4092	4.320E-03	.3091
18.54	.358	752.92	3.603E-03	.2578	4.775E-03	.3417	5.702E-03	.4080	4.308E-03	.3083
18.92	.366	750.47	3.593E-03	.2571	4.760E-03	.3406	5.683E-03	.4067	4.295E-03	.3073
19.29	.373	752.81	3.640E-03	.2610	4.840E-03	.3463	5.786E-03	.4140	4.365E-03	.3123
19.66	.380	752.32	3.637E-03	.2602	4.823E-03	.3451	5.764E-03	.4124	4.350E-03	.3113
20.03	.387	750.12	3.585E-03	.2565	4.749E-03	.3398	5.669E-03	.4056	4.285E-03	.3066
20.40	.394	751.81	3.625E-03	.2594	4.806E-03	.3439	5.742E-03	.4108	4.335E-03	.3102
20.76	.401	754.35	3.685E-03	.2637	4.894E-03	.3501	5.854E-03	.4189	4.411E-03	.3156
21.12	.408	755.91	3.722E-03	.2663	4.948E-03	.3540	5.923E-03	.4238	4.458E-03	.3190
21.48	.415	757.34	3.756E-03	.2687	4.998E-03	.3576	5.987E-03	.4284	4.502E-03	.3221
21.84	.422	755.61	3.714E-03	.2658	4.937E-03	.3533	5.910E-03	.4229	4.449E-03	.3183
22.19	.429	753.90	3.674E-03	.2629	4.878E-03	.3490	5.834E-03	.4174	4.398E-03	.3147
22.54	.436	754.14	3.680E-03	.2633	4.886E-03	.3496	5.845E-03	.4182	4.405E-03	.3152
22.88	.442	755.51	3.712E-03	.2656	4.934E-03	.3530	5.906E-03	.4226	4.446E-03	.3181
23.23	.449	754.13	3.680E-03	.2633	4.886E-03	.3496	5.844E-03	.4182	4.405E-03	.3152
23.57	.456	753.19	3.655E-03	.2616	4.851E-03	.3471	5.799E-03	.4149	4.374E-03	.3130
23.91	.462	753.93	3.679E-03	.2630	4.879E-03	.3491	5.836E-03	.4176	4.399E-03	.3148
24.24	.469	754.13	3.680E-03	.2633	4.886E-03	.3496	5.844E-03	.4182	4.405E-03	.3152

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
104	8	TILE INSERT	0.175	.010	.025	5.731E 05	1.587E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	156.4	1267	39.46	39.67	30.00	-9.46	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0170	.747	3754	1.525E-05	7.516E-08	7.616E 05	1.398E-02	65

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
41.284	2.455	39.906	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.933TO)	H(.933TO)/HREF
24.57	.475	752.84	3.649E-03	.2611	4.842E-03	.3464	5.787E-03	.4141	4.366E-03	.3124
24.90	.481	754.5[illegible]	3.688E-03	.2639	4.899E-03	.3505	5.861E-03	.4194	4.416E-03	.3160
25.23	.488	754.21	3.682E-03	.2634	4.889E-03	.3498	5.848E-03	.4184	4.407E-03	.3154
25.55	.494	751.37	3.615E-03	.2586	4.792E-03	.3429	5.723E-03	.4095	4.323E-03	.3093
25.87	.500	748.98	3.559E-03	.2547	4.711E-03	.3371	5.620E-03	.4021	4.252E-03	.3043

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
104	8	TILE INSERT	0.175	.010	.025	5.731E 05	1.587E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	156.4	1267	39.46	39.67	30.00	-9.46	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0170	.747	3754	1.525E-05	7.516E-08	7.616E 05	1.398E-02	65

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
41.284	2.455	39.906	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.077	523.91	523.88	522.66	523.05	523.55	523.55	523.52	523.73	518.90	520.57
2.073	526.09	526.42	524.45	524.46	524.36	524.18	523.97	524.03	519.31	521.07
3.070	527.67	528.08	525.76	525.56	525.10	524.66	524.36	524.30	519.81	521.66
4.066	529.95	529.39	526.92	526.54	525.76	525.08	524.69	524.54	520.30	522.24
5.063	530.07	530.52	527.90	527.40	526.00	525.46	524.99	524.81	520.84	522.65
6.060	531.11	531.59	528.80	528.17	526.95	525.88	525.28	525.08	521.16	523.19
7.056	532.06	532.57	529.66	528.98	527.52	526.24	525.52	525.28	521.79	523.55
8.053	532.94	533.49	530.46	529.69	528.09	526.57	525.79	525.49	522.38	524.27
9.049	533.87	534.37	531.23	530.43	528.62	526.92	526.06	525.76	522.87	524.81
10.046	534.70	535.21	532.00	531.08	529.15	527.28	526.33	526.00	523.32	525.12
11.042	535.50	536.00	532.74	531.77	529.66	527.64	526.57	526.21	523.77	525.71
12.039	535.24	536.74	533.46	532.42	530.16	527.99	526.83	526.42	524.22	526.07
13.036	536.71	537.48	534.14	533.07	530.67	528.29	527.07	526.62	524.85	526.74
14.032	537.27	538.19	534.82	533.69	531.20	528.65	527.37	526.89	525.30	527.19
15.029	537.98	538.89	535.50	534.31	531.68	529.00	527.61	527.10	525.71	527.64
16.025	538.66	539.54	536.12	534.91	532.18	529.36	527.87	527.34	526.16	528.04
17.022	539.30	540.16	536.77	535.50	532.66	529.69	528.14	527.55	526.69	528.58
19.018	539.92	540.81	537.36	536.06	533.13	530.07	528.41	527.76	527.28	529.16
19.015	540.54	541.40	537.95	536.62	533.63	530.40	528.68	528.02	527.73	529.61
20.012	541.16	542.01	538.57	537.18	534.11	530.79	528.95	528.26	528.04	530.06
21.008	541.78	542.60	539.13	537.71	534.55	531.14	529.21	528.47	528.58	530.46

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
104	8	TILE INSERT	0.175	.010	.025	5.731E 05	1.587E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	156.4	1267	39.46	39.67	30.00	-9.46	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0170	.747	3754	1.525E-05	7.516E-08	7.616E 05	1.398E-02	65

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
41.284	2.455	39.906	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.005	542.34	543.19	539.69	538.24	535.02	531.47	529.48	528.71	529.07	531.00
23.001	542.92	543.75	540.25	538.77	535.50	531.83	529.75	528.95	529.79	531.63
23.958	543.48	544.30	540.78	539.30	535.94	532.18	530.04	529.21	530.24	532.03
24.994	544.04	544.86	541.31	539.81	536.38	532.54	530.34	529.48	530.55	532.43
25.991	544.60	545.39	541.84	540.31	536.83	532.89	530.61	529.69	531.05	532.84
26.988	545.19	545.92	542.34	540.78	537.24	533.22	530.88	529.90	531.67	533.51
27.944	545.71	546.45	542.84	541.25	537.68	533.57	531.17	530.16	532.25	534.00
28.941	546.27	546.97	543.34	541.72	538.13	533.93	531.47	530.43	532.66	534.40
29.977	546.77	547.44	543.84	542.19	538.54	534.28	531.74	530.70	533.10	534.80
30.974	547.27	547.94	544.30	542.66	538.98	534.64	532.06	530.94	533.51	535.30
31.970	547.76	548.44	544.77	543.10	539.39	534.96	532.33	531.17	534.18	535.88
32.967	548.29	548.90	545.24	543.57	539.81	535.32	532.63	531.44	534.67	536.37
33.964	548.76	549.37	545.71	544.01	540.22	535.64	532.92	531.71	535.07	536.77
34.960	549.23	549.84	546.18	544.45	540.63	536.00	533.22	531.97	535.43	537.17
35.957	549.69	550.31	546.62	544.89	541.01	536.35	533.51	532.24	535.97	537.62
36.953	550.16	550.77	547.06	545.33	541.42	536.68	533.78	532.45	536.56	538.20
37.950	550.60	551.24	547.53	545.77	541.84	537.03	534.08	532.77	537.08	538.69
38.946	551.07	551.65	547.94	546.18	542.22	537.36	534.37	533.04	537.44	539.00
39.888	551.48	552.09	548.35	546.59	542.60	537.71	534.67	533.28	537.97	539.53
39.943	551.50	552.12	548.41	546.62	542.60	537.71	534.70	533.31	537.84	539.45
40.940	551.94	552.55	548.82	547.00	542.98	538.07	534.99	533.54	538.42	539.98
41.936	552.38	552.96	549.23	547.44	543.39	538.39	535.29	533.81	538.95	540.51

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	PEK
104	8	TILE INSERT	0.175	.010	.025	5.731E 05	1.587E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	156.4	1267	39.46	39.67	30.00	-9.46	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0170	.747	3754	1.525E-05	7.516E-08	7.616E 05	1.398E-02	65

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
41.284	2.455	39.906	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
42.933	552.82	553.37	549.66	547.94	543.81	538.74	535.62	534.08	539.40	540.92

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
104	8	TILE INSERT	0.175	.010	.025	5.731E 05	1.587E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	156.4	1267	39.46	39.67	30.00	-9.46	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0170	.747	3754	1.525E-05	7.516E-08	7.616E 05	1.398E-02	65

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
41.284	2.455	39.906	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
10.997	1
20.039	2
40.012	3

NASA/RI OH69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
105	B	TILE INSERT	0.175	.010	.025	5.672E 05	1.570E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.7	1266	29.87	30.01	30.00	.13	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0168	.738	3753	1.508E-05	7.510E-08	7.538E 05	1.389E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.507	2.446	31.134	200

X (IN)	X/L	TW. (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	573.96	5.348E-04	.0385	6.544E-04	.0471	7.369E-04	.0530	6.367E-04	.0458
10.33	.200	599.91	9.036E-04	.0650	1.116E-03	.0803	1.264E-03	.0910	1.084E-03	.0780
10.71	.207	603.73	9.613E-04	.0692	1.188E-03	.0855	1.348E-03	.0970	1.154E-03	.0831
11.10	.214	602.44	9.420E-04	.0678	1.164E-03	.0838	1.320E-03	.0950	1.131E-03	.0814
11.48	.222	604.21	9.687E-04	.0697	1.196E-03	.0862	1.358E-03	.0978	1.164E-03	.0837
11.85	.229	606.73	1.007E-03	.0725	1.247E-03	.0897	1.415E-03	.1018	1.211E-03	.0871
12.23	.236	608.44	1.034E-03	.0744	1.280E-03	.0921	1.453E-03	.1046	1.243E-03	.0895
12.60	.244	610.66	1.068E-03	.0769	1.324E-03	.0953	1.504E-03	.1082	1.286E-03	.0925
12.98	.251	611.68	1.084E-03	.0780	1.344E-03	.0967	1.527E-03	.1099	1.305E-03	.0939
13.35	.258	612.82	1.102E-03	.0793	1.367E-03	.0984	1.554E-03	.1118	1.327E-03	.0955
13.72	.265	613.94	1.120E-03	.0806	1.390E-03	.1000	1.580E-03	.1137	1.349E-03	.0971
14.10	.272	615.35	1.142E-03	.0822	1.418E-03	.1021	1.613E-03	.1161	1.377E-03	.0991
14.45	.279	616.26	1.189E-03	.0856	1.478E-03	.1063	1.682E-03	.1210	1.434E-03	.1032
14.81	.286	621.61	1.227E-03	.0883	1.526E-03	.1098	1.738E-03	.1251	1.481E-03	.1066
15.17	.293	622.26	1.254E-03	.0902	1.560E-03	.1123	1.778E-03	.1280	1.514E-03	.1090
15.53	.300	624.92	1.297E-03	.0934	1.617E-03	.1163	1.843E-03	.1327	1.569E-03	.1129
15.89	.307	627.84	1.346E-03	.0969	1.679E-03	.1208	1.916E-03	.1379	1.629E-03	.1172
16.25	.314	629.66	1.376E-03	.0991	1.718E-03	.1236	1.961E-03	.1412	1.667E-03	.1199
16.60	.321	632.64	1.427E-03	.1027	1.783E-03	.1283	2.037E-03	.1466	1.729E-03	.1245
16.96	.328	637.34	1.507E-03	.1085	1.887E-03	.1358	2.159E-03	.1554	1.830E-03	.1317
17.31	.335	641.24	1.576E-03	.1134	1.976E-03	.1422	2.203E-03	.1629	1.915E-03	.1379

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
105	8	TILE INSERT	0.175	.010	.025	5.672E 05	1.570E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.7	1266	29.87	30.01	30.00	.13	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0168	.738	3753	1.508E-05	7.510E-08	7.538E 05	1.389E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.507	2.446	31.134	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	645.33	1.648E-03	.1186	2.070E-03	.1490	2.374E-03	.1709	2.006E-03	.1444
18.01	.348	645.12	1.699E-03	.1223	2.136E-03	.1537	2.452E-03	.1765	2.070E-03	.1490
18.35	.355	649.89	1.731E-03	.1246	2.178E-03	.1568	2.501E-03	.1800	2.110E-03	.1519
18.70	.361	650.97	1.750E-03	.1260	2.204E-03	.1586	2.532E-03	.1822	2.135E-03	.1537
19.04	.368	654.42	1.814E-03	.1306	2.287E-03	.1646	2.631E-03	.1893	2.216E-03	.1595
19.38	.375	658.03	1.882E-03	.1354	2.376E-03	.1710	2.736E-03	.1969	2.301E-03	.1656
19.72	.381	659.25	1.906E-03	.1371	2.408E-03	.1733	2.773E-03	.1996	2.331E-03	.1678
20.06	.388	659.93	1.918E-03	.1380	2.424E-03	.1745	2.792E-03	.2010	2.347E-03	.1689
20.39	.394	663.15	1.982E-03	.1427	2.509E-03	.1806	2.893E-03	.2082	2.429E-03	.1748
20.73	.401	666.12	2.042E-03	.1470	2.588E-03	.1863	2.987E-03	.2150	2.505E-03	.1803
21.06	.407	669.40	2.109E-03	.1518	2.676E-03	.1926	3.093E-03	.2226	2.590E-03	.1864
21.39	.413	673.12	2.185E-03	.1573	2.778E-03	.2000	3.214E-03	.2313	2.687E-03	.1934
21.72	.420	674.43	2.213E-03	.1592	2.815E-03	.2026	3.258E-03	.2345	2.723E-03	.1959
22.05	.426	674.98	2.224E-03	.1601	2.830E-03	.2037	3.276E-03	.2358	2.737E-03	.1970
22.37	.432	675.35	2.252E-03	.1621	2.868E-03	.2064	3.322E-03	.2391	2.774E-03	.1996
22.69	.439	679.94	2.325E-03	.1676	2.969E-03	.2137	3.443E-03	.2478	2.871E-03	.2066
23.02	.445	682.30	2.378E-03	.1712	3.036E-03	.2185	3.524E-03	.2536	2.935E-03	.2113
23.34	.451	681.59	2.363E-03	.1701	3.016E-03	.2171	3.500E-03	.2519	2.916E-03	.2099
23.65	.457	683.13	2.396E-03	.1724	3.060E-03	.2202	3.553E-03	.2557	2.958E-03	.2129
23.97	.463	684.88	2.433E-03	.1751	3.111E-03	.2239	3.613E-03	.2601	3.006E-03	.2164
24.29	.469	684.90	2.434E-03	.1752	3.111E-03	.2239	3.614E-03	.2601	3.007E-03	.2164
24.60	.475	684.42	2.423E-03	.1744	3.097E-03	.2229	3.597E-03	.2589	2.994E-03	.2155

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
105	8	TILE INSERT	0.175	.010	.025	5.672E 05	1.570E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.7	1266	29.87	30.01	30.00	.13	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0168	.738	3753	1.508E-05	7.510E-08	7.538E 05	1.389E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.507	2.446	31.134	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	685.93	2.455E-03	.1767	3.140E-03	.2260	3.649E-03	.2626	3.035E-03	.2184
25.22	.487	686.06	2.459E-03	.1770	3.145E-03	.2264	3.655E-03	.2631	3.039E-03	.2188
25.53	.493	683.97	2.414E-03	.1737	3.085E-03	.2220	3.582E-03	.2578	2.982E-03	.2146
25.83	.499	682.62	2.385E-03	.1717	3.046E-03	.2192	3.535E-03	.2544	2.944E-03	.2119
26.14	.505	646.63	1.672E-03	.1203	2.101E-03	.1512	2.411E-03	.1735	2.036E-03	.1466

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AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
105	8	TILE INSERT	0.175	.010	.025	5.672E 05	1.570E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.7	1266	29.87	30.01	30.00	.13	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0168	.738	3753	1.508E-05	7.510E-08	7.538E 05	1.389E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.507	2.446	31.134	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.073	520.83	520.50	519.10	519.46	520.14	520.47	520.68	520.92	523.14	524.58
2.069	523.05	522.96	520.71	520.65	520.71	520.92	521.04	521.16	523.41	524.81
3.066	524.66	524.63	522.00	521.67	521.31	521.31	521.31	521.40	523.41	524.81
4.062	525.97	525.94	523.05	522.57	521.88	521.67	521.55	521.64	523.37	524.90
5.059	527.10	527.07	524.00	523.37	521.79	521.97	521.79	521.79	523.37	524.81
6.056	528.14	528.08	524.90	524.09	522.93	522.27	522.00	521.94	523.55	524.94
7.052	529.06	529.03	525.70	524.81	523.40	522.57	522.24	522.15	523.73	525.17
8.049	529.90	529.90	526.48	525.49	523.88	522.87	522.45	522.36	523.77	525.12
9.045	530.67	530.70	527.22	526.15	524.36	523.16	522.66	522.54	523.77	525.12
10.042	531.35	531.47	527.87	526.77	524.84	523.46	522.87	522.72	523.77	525.08
11.038	532.00	532.21	528.59	527.37	525.28	523.73	523.05	522.84	524.00	525.30
12.035	532.74	532.92	529.24	527.99	525.76	524.03	523.25	523.02	524.09	525.44
13.032	533.40	533.60	529.87	528.59	526.24	524.33	523.46	523.22	524.04	525.39
14.028	534.11	534.29	530.52	529.15	526.68	524.63	523.67	523.40	524.04	525.35
15.025	534.70	534.88	531.11	529.72	527.13	524.93	523.88	523.55	524.18	525.44
16.021	535.50	535.50	531.68	530.28	527.58	525.22	524.09	523.70	524.45	525.71
17.018	536.18	536.15	532.27	530.82	528.02	525.52	524.30	523.94	524.49	525.75
18.014	536.77	536.77	532.86	531.35	528.50	525.85	524.51	524.12	524.45	525.71
19.011	537.42	537.34	533.46	531.91	528.95	526.15	524.75	524.30	524.54	525.71
20.008	538.01	537.98	534.02	532.42	529.36	526.48	524.94	524.45	524.72	525.93
21.004	538.60	538.57	534.58	532.98	529.81	526.77	525.19	524.63	524.90	526.02

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75 PAGE 5
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
145	8	TILE INSERT	0.175	.010	.025	5.672E 05	1.570E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.7	1266	29.87	30.01	30.00	.13	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0168	.738	3753	1.508E-05	7.510E-08	7.538E 05	1.389E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.507	2.446	31.134	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.001	539.19	539.10	535.14	533.48	530.25	527.10	525.43	524.90	524.85	526.07
22.997	539.72	539.66	535.67	533.99	530.70	527.40	525.67	525.05	524.90	525.98
23.994	540.22	540.19	536.18	534.49	531.11	527.73	525.91	525.25	525.08	526.11
24.990	540.54	540.72	536.68	534.94	531.53	528.05	526.15	525.43	525.21	526.29
25.987	540.87	541.22	537.18	535.44	531.94	528.35	526.42	525.64	525.26	526.43
26.984	541.34	541.75	537.68	535.94	532.39	528.68	526.65	525.85	525.26	526.34
27.980	541.81	542.25	538.21	536.41	532.77	529.00	526.89	526.06	525.35	526.38
28.977	542.25	542.78	538.69	536.86	533.10	529.30	527.13	526.27	525.57	526.56
29.973	542.72	543.28	539.19	537.36	533.60	529.63	527.37	526.45	525.71	526.74
30.970	543.16	543.81	539.69	537.77	533.99	529.93	527.61	526.68	525.75	526.78
31.116	543.22	543.86	539.78	537.86	534.05	529.99	527.67	526.71	525.66	526.65
31.966	543.66	544.30	540.19	538.24	534.40	530.25	527.87	526.89	525.75	526.74
32.963	544.16	544.77	540.66	538.72	534.79	530.55	528.14	527.10	525.84	526.87
33.960	544.60	545.24	541.10	539.16	535.20	530.88	528.38	527.31	526.07	527.01
34.956	545.10	545.74	541.57	539.60	535.59	531.20	528.62	527.55	526.20	527.23

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
105	8	TILE INSERT	0.175	.010	.025	5.672E 05	1.570E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.93	154.7	1266	29.87	30.01	30.00	.13	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0168	.739	3753	1.508E-05	7.510E-08	7.538E 05	1.389E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
32.507	2.446	31.134	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.242	1
14.248	2
31.212	3

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AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
106	8	TILE INSERT	0.175	.010	.025	3.924E 05	1.086E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.2	1261	39.86	39.99	30.00	-9.86	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0117	.511	3744	1.049E-05	7.532E-08	5.215E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
40.205	2.450	38.830	200

X (IN)	X/L	TW. (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	559.36	3.005E-04	.0260	3.664E-04	.0317	4.114E-04	.0356	3.410E-04	.0295
8.15	.158	566.83	3.867E-04	.0335	4.725E-04	.0409	5.315E-04	.0460	4.393E-04	.0380
8.60	.166	579.54	5.403E-04	.0468	6.629E-04	.0574	7.478E-04	.0647	6.154E-04	.0533
9.05	.175	650.47	1.559E-03	.1350	1.965E-03	.1701	2.259E-03	.1956	1.805E-03	.1563
9.49	.183	665.07	1.812E-03	.1568	2.298E-03	.1989	2.654E-03	.2297	2.105E-03	.1823
9.93	.192	631.23	1.254E-03	.1086	1.568E-03	.1358	1.792E-03	.1552	1.445E-03	.1251
10.37	.200	615.85	1.026E-03	.0889	1.276E-03	.1104	1.452E-03	.1257	1.178E-03	.1020
10.81	.209	615.22	1.061E-03	.0918	1.319E-03	.1142	1.503E-03	.1301	1.218E-03	.1055
11.24	.217	618.42	1.064E-03	.0921	1.323E-03	.1146	1.507E-03	.1305	1.222E-03	.1058
11.67	.226	620.16	1.089E-03	.0943	1.356E-03	.1174	1.545E-03	.1337	1.251E-03	.1083
12.10	.234	621.95	1.115E-03	.0965	1.389E-03	.1203	1.584E-03	.1371	1.282E-03	.1110
12.52	.242	623.43	1.137E-03	.0984	1.417E-03	.1227	1.616E-03	.1399	1.308E-03	.1132
12.94	.250	624.58	1.154E-03	.0999	1.439E-03	.1246	1.642E-03	.1422	1.328E-03	.1149
13.36	.258	625.02	1.175E-03	.1018	1.467E-03	.1270	1.674E-03	.1449	1.353E-03	.1171
13.78	.266	625.49	1.168E-03	.1011	1.457E-03	.1261	1.662E-03	.1439	1.343E-03	.1163
14.19	.274	625.43	1.182E-03	.1023	1.475E-03	.1277	1.683E-03	.1457	1.360E-03	.1177
14.60	.282	627.80	1.202E-03	.1041	1.501E-03	.1300	1.714E-03	.1484	1.384E-03	.1198
15.01	.290	628.50	1.213E-03	.1050	1.515E-03	.1311	1.730E-03	.1498	1.396E-03	.1209
15.41	.298	629.15	1.223E-03	.1059	1.527E-03	.1322	1.745E-03	.1511	1.408E-03	.1219
15.81	.306	631.30	1.255E-03	.1087	1.570E-03	.1359	1.794E-03	.1553	1.446E-03	.1252
16.21	.313	633.14	1.284E-03	.1111	1.606E-03	.1391	1.837E-03	.1591	1.480E-03	.1281

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
106	8	TILE INSERT	0.175	.010	.025	3.924E 05	1.086E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREHEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.2	1261	39.86	39.99	30.00	-9.86	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0117	.511	3744	1.049E-05	7.532E-08	5.215E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
40.205	2.450	38.830	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	635.42	1.319E-03	.1142	1.652E-03	.1430	1.890E-03	.1637	1.521E-03	.1317
17.00	.329	641.31	1.395E-03	.1208	1.751E-03	.1516	2.007E-03	.1737	1.611E-03	.1395
17.39	.336	641.68	1.417E-03	.1227	1.780E-03	.1541	2.040E-03	.1766	1.637E-03	.1417
17.77	.344	643.62	1.448E-03	.1253	1.819E-03	.1575	2.087E-03	.1807	1.673E-03	.1449
18.16	.351	645.81	1.484E-03	.1284	1.866E-03	.1615	2.142E-03	.1854	1.715E-03	.1485
18.54	.358	647.14	1.505E-03	.1303	1.894E-03	.1640	2.175E-03	.1883	1.741E-03	.1507
18.92	.366	648.51	1.527E-03	.1322	1.923E-03	.1665	2.210E-03	.1913	1.767E-03	.1530
19.29	.373	651.85	1.583E-03	.1370	1.996E-03	.1728	2.295E-03	.1987	1.833E-03	.1587
19.66	.380	652.51	1.593E-03	.1380	2.010E-03	.1740	2.312E-03	.2002	1.846E-03	.1598
20.03	.387	652.34	1.591E-03	.1377	2.006E-03	.1737	2.308E-03	.1998	1.842E-03	.1595
20.40	.394	653.58	1.611E-03	.1395	2.033E-03	.1760	2.340E-03	.2026	1.867E-03	.1616
20.76	.401	655.91	1.651E-03	.1429	2.085E-03	.1805	2.401E-03	.2079	1.914E-03	.1657
21.12	.408	657.47	1.677E-03	.1452	2.120E-03	.1835	2.442E-03	.2114	1.945E-03	.1684
21.48	.415	659.95	1.720E-03	.1489	2.176E-03	.1884	2.509E-03	.2172	1.996E-03	.1728
21.84	.422	660.66	1.732E-03	.1500	2.193E-03	.1898	2.529E-03	.2189	2.011E-03	.1741
22.19	.429	660.21	1.724E-03	.1493	2.182E-03	.1889	2.516E-03	.2179	2.001E-03	.1733
22.54	.436	662.12	1.759E-03	.1522	2.227E-03	.1928	2.570E-03	.2225	2.042E-03	.1768
22.88	.442	665.27	1.816E-03	.1572	2.303E-03	.1994	2.660E-03	.2303	2.110E-03	.1827
23.23	.449	665.77	1.825E-03	.1580	2.315E-03	.2004	2.675E-03	.2316	2.121E-03	.1836
23.57	.456	665.70	1.823E-03	.1579	2.313E-03	.2003	2.672E-03	.2314	2.120E-03	.1835
23.91	.462	666.09	1.867E-03	.1617	2.372E-03	.2053	2.742E-03	.2374	2.172E-03	.1880
24.24	.469	669.93	1.901E-03	.1646	2.416E-03	.2092	2.795E-03	.2420	2.212E-03	.1915

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
106	8	TILE INSERT	0.175	.010	.025	3.924E 05	1.086E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.2	1261	39.86	39.99	30.00	-9.86	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0117	.511	3744	1.049E-05	7.532E-08	5.215E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
40.205	2.450	38.830	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	673.09	1.904E-03	.1649	2.421E-03	.2096	2.801E-03	.2425	2.216E-03	.1919
24.90	.481	672.81	1.955E-03	.1692	2.488E-03	.2154	2.881E-03	.2494	2.277E-03	.1971
25.23	.488	672.46	1.948E-03	.1687	2.479E-03	.2147	2.871E-03	.2485	2.269E-03	.1964
25.55	.494	673.07	1.960E-03	.1697	2.495E-03	.2160	2.889E-03	.2501	2.283E-03	.1976
25.87	.500	672.34	1.946E-03	.1685	2.477E-03	.2144	2.867E-03	.2482	2.266E-03	.1962

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
106	8	TILE INSERT	0.175	.010	.025	3.924E 05	1.086E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.2	1261	39.86	39.99	30.00	-9.86	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0117	.511	3744	1.049E-05	7.532E-08	5.215E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
40.205	2.450	38.830	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.075	522.18	522.33	521.28	521.73	522.03	522.18	522.15	522.21	522.29	522.78
2.071	524.00	524.45	522.75	522.93	522.87	522.72	522.54	522.54	522.38	522.92
3.068	525.19	525.85	523.82	523.85	523.49	523.14	522.84	522.78	522.47	522.96
4.064	526.21	526.92	524.75	524.66	524.06	523.49	523.11	522.99	522.74	523.28
5.061	527.04	527.85	525.58	525.37	524.57	523.82	523.34	523.16	523.10	523.50
6.058	527.82	528.74	526.33	526.03	525.02	524.12	523.58	523.40	523.32	523.77
7.054	528.47	529.51	527.04	526.65	525.49	524.45	523.82	523.61	523.37	523.86
8.051	529.15	530.25	527.73	527.25	525.94	524.75	524.03	523.79	523.46	524.00
9.047	529.93	530.97	528.35	527.85	526.36	525.02	524.24	523.97	523.82	524.31
10.044	530.52	531.62	528.98	528.41	526.80	525.31	524.48	524.15	524.18	524.63
11.040	531.11	532.30	529.60	528.95	527.22	525.58	524.69	524.36	524.31	524.81
12.037	531.74	532.95	530.19	529.48	527.67	525.88	524.90	524.57	524.40	524.81
13.034	532.45	533.54	530.82	529.99	528.11	526.18	525.10	524.75	524.63	525.12
14.030	533.07	534.14	531.38	530.49	528.50	526.45	525.34	524.90	524.94	525.35
15.027	533.66	534.76	531.91	531.02	528.95	526.74	525.52	525.08	525.26	525.66
16.023	534.23	535.32	532.45	531.50	529.33	527.04	525.76	525.31	525.39	525.89
17.020	534.79	535.88	532.98	532.00	529.75	527.34	525.97	525.49	525.44	525.93
18.016	535.26	536.38	533.48	532.48	530.13	527.61	526.21	525.67	525.71	526.16
19.013	535.79	536.92	533.99	532.95	530.52	527.90	526.42	525.85	526.07	526.47
20.010	536.29	537.42	534.46	533.43	530.91	528.17	526.62	526.03	526.29	526.78
21.006	536.80	537.92	534.96	533.87	531.32	528.47	526.86	526.27	526.38	526.83

NASA/RI OH69
V41B-F9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
106	8	TILE INSERT	0.175	.010	.025	3.924E 05	1.086E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.2	1261	39.86	39.99	30.00	-9.86	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0117	.511	3744	1.049E-05	7.532E-08	5.215E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
40.205	2.450	38.830	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.003	537.30	538.39	535.44	534.31	531.71	528.77	527.10	526.45	526.60	527.01
22.999	537.74	538.86	535.88	534.76	532.06	529.06	527.31	526.65	526.69	527.19
23.996	538.24	539.36	536.35	535.20	532.45	529.36	527.55	526.83	527.14	527.50
24.992	538.74	539.81	536.80	535.62	532.83	529.63	527.79	527.04	527.37	527.82
25.989	539.19	540.25	537.24	536.03	533.19	529.96	528.02	527.28	527.41	527.91
26.986	539.66	540.66	537.68	536.44	533.54	530.25	528.26	527.49	527.55	528.00
27.982	540.13	541.07	538.10	536.86	533.90	530.52	528.50	527.67	527.82	528.36
28.979	540.57	541.49	538.48	537.24	534.28	530.82	528.74	527.85	528.18	528.58
29.975	541.01	541.93	538.89	537.62	534.64	531.11	528.98	528.08	528.36	528.85
30.972	541.42	542.34	539.33	538.04	534.99	531.41	529.21	528.32	528.49	528.98
31.968	541.84	542.75	539.72	538.42	535.35	531.71	529.45	528.53	528.58	529.03
32.965	542.25	543.13	540.10	538.80	535.70	531.97	529.69	528.71	528.80	529.34
33.962	542.66	543.54	540.48	539.19	536.03	532.24	529.93	528.92	529.21	529.75
34.958	543.07	543.93	540.87	539.54	536.35	532.57	530.19	529.15	529.39	529.79
35.955	543.45	544.30	541.25	539.92	536.71	532.83	530.43	529.39	529.48	529.97
36.951	543.86	544.72	541.63	540.28	537.03	533.13	530.67	529.60	529.66	530.15
37.948	544.25	545.07	541.98	540.63	537.36	533.43	530.91	529.81	529.84	530.37
38.812	544.60	545.42	542.34	540.92	537.65	533.66	531.14	530.02	530.24	530.73
38.944	544.66	545.45	542.34	540.98	537.71	533.69	531.14	530.02	530.19	530.78
39.941	545.01	545.83	542.72	541.34	538.04	533.96	531.41	530.25	530.33	530.82
40.938	545.39	546.18	543.07	541.69	538.36	534.28	531.68	530.52	530.46	530.96
41.934	545.80	546.53	543.42	542.01	538.66	534.55	531.91	530.73	530.60	531.18

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
106	8	TILE INSERT	0.175	.010	.025	3.924E 05	1.086E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.2	1261	39.86	39.99	30.00	-9.86	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0117	.511	3744	1.049E-05	7.532E-08	5.215E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
40.205	2.450	38.830	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
42.931	546.18	546.89	543.78	542.37	538.95	534.85	532.15	530.94	530.96	531.40

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
106	8	TILE INSERT	0.175	.010	.025	3.924E 05	1.086E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.90	105.2	1261	39.86	39.99	30.00	-9.86	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0117	.511	3744	1.049E-05	7.532E-08	5.215E 05	1.155E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
40.205	2.450	38.830	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
6.775	1
16.192	2
39.730	3

NASA/RI 0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
107	8	TILE INSERT	0.175	.010	-.020	2.060E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.8	1323	29.44	29.99	30.00	.56	30.00	0

T - INF (DEG R)	P - INF (PSIA)	G - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0632	2.823	3838	5.517E-05	7.735E-08	2.737E 06	2.738E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.473	2.441	13.102	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.188	578.16	7.573E-04	.0277	9.209E-04	.0336	1.032E-03	.0377	8.969E-04	.0328
9.55	.192	621.88	1.677E-03	.0612	2.067E-03	.0755	2.339E-03	.0854	2.009E-03	.0734
10.33	.200	671.29	2.928E-03	.1070	3.674E-03	.1342	4.211E-03	.1538	3.562E-03	.1301
10.71	.207	684.86	3.441E-03	.1257	4.345E-03	.1589	5.009E-03	.1830	4.211E-03	.1538
11.10	.214	706.87	3.994E-03	.1459	5.087E-03	.1858	5.893E-03	.2152	4.920E-03	.1797
11.48	.222	726.23	4.620E-03	.1688	5.937E-03	.2169	6.923E-03	.2529	5.734E-03	.2095
11.85	.229	744.34	5.238E-03	.1913	6.791E-03	.2481	7.973E-03	.2912	6.550E-03	.2393
12.23	.236	757.51	5.710E-03	.2086	7.454E-03	.2723	8.798E-03	.3214	7.182E-03	.2623
12.60	.244	764.05	6.102E-03	.2229	8.012E-03	.2927	9.499E-03	.3470	7.713E-03	.2817
12.98	.251	776.65	6.433E-03	.2350	8.485E-03	.3101	1.010E-02	.3690	8.165E-03	.2982
13.35	.258	781.58	6.627E-03	.2421	8.771E-03	.3204	1.046E-02	.3822	8.433E-03	.3080
13.72	.265	784.29	6.732E-03	.2459	8.924E-03	.3260	1.066E-02	.3893	8.577E-03	.3133
14.08	.272	789.83	6.961E-03	.2543	9.259E-03	.3382	1.109E-02	.4051	8.895E-03	.3249
14.45	.279	794.44	7.152E-03	.2613	9.541E-03	.3485	1.145E-02	.4184	9.162E-03	.3347
14.81	.286	796.14	7.224E-03	.2639	9.647E-03	.3524	1.159E-02	.4234	9.262E-03	.3383
15.17	.293	796.36	7.231E-03	.2641	9.657E-03	.3528	1.160E-02	.4239	9.272E-03	.3387
15.53	.300	797.10	7.265E-03	.2654	9.708E-03	.3546	1.167E-02	.4263	9.319E-03	.3404
15.89	.307	798.39	7.320E-03	.2674	9.785E-03	.3576	1.178E-02	.4301	9.396E-03	.3432
16.25	.314	797.70	7.291E-03	.2663	9.746E-03	.3560	1.172E-02	.4281	9.355E-03	.3417
16.60	.321	799.27	7.358E-03	.2688	9.846E-03	.3596	1.185E-02	.4328	9.450E-03	.3452
16.96	.328	802.28	7.488E-03	.2735	1.004E-02	.3667	1.210E-02	.4420	9.632E-03	.3518

NASA/FI 0H69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
107	8	TILE INSERT	0.175	.010	-.020	2.060E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.8	1323	29.44	29.99	30.00	.56	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0622	2.823	3838	5.517E-05	7.735E-08	2.737E 06	2.738E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.473	2.441	13.102	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	803.26	7.530E-03	.2751	1.010E-02	.3690	1.218E-02	.4450	9.692E-03	.3540
17.66	.341	804.96	7.604E-03	.2778	1.021E-02	.3731	1.233E-02	.4503	9.797E-03	.3578
18.01	.348	805.04	7.608E-03	.2779	1.022E-02	.3733	1.234E-02	.4506	9.802E-03	.3580
18.35	.355	804.63	7.591E-03	.2773	1.019E-02	.3723	1.230E-02	.4493	9.777E-03	.3571
18.70	.361	804.32	7.577E-03	.2768	1.017E-02	.3716	1.227E-02	.4484	9.758E-03	.3564
19.04	.368	805.02	7.652E-03	.2795	1.028E-02	.3756	1.242E-02	.4537	9.863E-03	.3603
19.38	.375	805.84	7.644E-03	.2792	1.027E-02	.3752	1.241E-02	.4531	9.852E-03	.3599
19.72	.381	803.42	7.538E-03	.2754	1.011E-02	.3694	1.220E-02	.4456	9.703E-03	.3544
20.06	.388	804.71	7.595E-03	.2774	1.020E-02	.3725	1.231E-02	.4496	9.783E-03	.3573
20.39	.394	806.85	7.689E-03	.2809	1.034E-02	.3777	1.249E-02	.4564	9.916E-03	.3622
20.73	.401	808.12	7.746E-03	.2829	1.043E-02	.3808	1.261E-02	.4604	9.996E-03	.3651
21.06	.407	809.09	7.789E-03	.2845	1.049E-02	.3832	1.269E-02	.4636	1.006E-02	.3674
21.39	.413	810.49	7.851E-03	.2868	1.058E-02	.3866	1.281E-02	.4681	1.015E-02	.3706
21.72	.420	809.00	7.741E-03	.2828	1.042E-02	.3805	1.260E-02	.4601	9.990E-03	.3649
22.05	.426	807.14	7.703E-03	.2814	1.036E-02	.3785	1.252E-02	.4574	9.936E-03	.3629
22.37	.432	808.29	7.754E-03	.2832	1.044E-02	.3813	1.262E-02	.4610	1.001E-02	.3656
22.69	.439	810.22	7.840E-03	.2864	1.057E-02	.3860	1.279E-02	.4672	1.013E-02	.3700
23.02	.445	809.39	7.804E-03	.2850	1.051E-02	.3840	1.272E-02	.4646	1.008E-02	.3681
23.34	.451	807.77	7.732E-03	.2824	1.040E-02	.3800	1.258E-02	.4594	9.976E-03	.3644
23.65	.457	809.32	7.800E-03	.2849	1.051E-02	.3838	1.271E-02	.4643	1.007E-02	.3679
23.97	.463	810.13	7.837E-03	.2863	1.056E-02	.3858	1.279E-02	.4670	1.013E-02	.3699
24.29	.469	808.06	7.745E-03	.2829	1.042E-02	.3808	1.260E-02	.4604	9.995E-03	.3651

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
107	8	TILE INSERT	0.175	.010	-.020	2.060E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.8	1323	29.44	29.99	30.00	.56	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0632	2.823	3838	5.517E-05	7.735E-08	2.737E 06	2.738E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
14.473	2.441	13.102	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	807.73	7.731E-03	.2824	1.040E-02	.3800	1.257E-02	.4593	9.975E-03	.3644
24.91	.482	810.60	7.858E-03	.2870	1.059E-02	.3870	1.283E-02	.4685	1.016E-02	.3710
25.22	.487	807.93	7.739E-03	.2827	1.041E-02	.3804	1.259E-02	.4599	9.986E-03	.3648
25.53	.493	808.42	7.673E-03	.2803	1.032E-02	.3769	1.246E-02	.4552	9.893E-03	.3614
25.83	.499	793.76	7.130E-03	.2604	9.507E-03	.3473	1.141E-02	.4167	9.130E-03	.3335
26.14	.505	636.44	2.020E-03	.0738	2.502E-03	.0914	2.842E-03	.1038	2.430E-03	.0888

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
197	8	TILE INSERT	0.175	.010	-.020	2.060E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.8	1323	29.44	29.99	30.00	.56	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	RHEF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0632	2.823	3838	5.517E-05	7.735E-08	2.737E 06	2.738E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.473	2.441	13.102	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.071	526.96	526.18	523.26	522.87	522.69	521.85	521.47	521.41	525.08	525.93
2.067	531.59	531.09	526.51	525.26	524.04	522.69	522.00	521.74	525.98	526.87
3.064	534.97	534.53	529.10	527.31	525.32	523.44	522.57	522.12	527.05	528.09
4.060	537.78	537.30	531.39	529.16	526.51	524.16	523.11	522.57	527.86	529.07
5.057	540.25	539.72	533.46	530.88	527.73	524.87	523.59	522.96	528.71	530.06
6.054	542.49	541.90	535.35	532.51	528.74	525.53	524.07	523.38	529.66	531.00
7.050	544.54	543.93	537.13	534.02	529.81	526.18	524.54	523.77	530.73	531.99
8.047	546.48	545.84	538.81	535.50	530.85	526.81	525.02	524.13	531.81	533.15
9.043	548.27	547.56	540.40	536.92	531.92	527.49	525.47	524.57	532.61	534.13
10.040	549.99	549.23	541.96	538.28	532.93	528.15	525.94	524.96	533.55	534.98
11.036	551.60	550.84	543.43	539.63	533.96	528.80	526.42	525.35	534.40	536.01
12.033	553.14	552.33	544.81	540.90	534.94	529.43	526.90	525.74	535.52	536.99
13.030	554.63	553.81	546.19	542.19	535.95	530.11	527.34	526.15	536.55	538.06
13.084	554.71	553.87	546.25	542.22	535.97	530.14	527.37	526.15	536.55	537.97
14.026	556.05	555.21	547.50	543.37	536.92	530.76	527.85	526.54	537.39	538.91
15.023	557.42	556.58	548.76	544.57	537.89	531.44	528.33	526.99	538.20	539.89
16.019	558.75	557.88	550.02	545.84	537.95	532.10	528.83	527.37	539.18	540.74

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
107	8	TILE INSERT	0.175	.010	-.020	2.060E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.8	1323	29.44	29.99	30.00	.56	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0632	2.823	3838	5.517E-05	7.735E-08	2.737E 06	2.738E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
14.473	2.441	13.102	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.705	1
9.720	2
13.148	3

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
107	8	TILE INSERT	0.175	.010	-.020	2.060E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.8	1323	29.44	29.99	30.00	.56	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0632	2.823	3838	5.517E-05	7.735E-08	2.737E 06	2.738E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.473	2.441	13.102	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.705	1
9.720	2
13.148	3

NASA/HI OH69
V41H-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
108	8	TILE INSERT	0.175	.010	-.020	2.057E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.2	1326	39.16	39.99	30.00	-9.16	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.3	.0633	2.830	3842	5.517E-05	7.753E-08	2.734E 06	2.742E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.380	2.450	8.005	1000

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.24	.140	561.22	6.056E-04	.0221	7.329E-04	.0267	8.187E-04	.0299	6.840E-04	.0249
7.69	.149	579.53	1.042E-03	.0380	1.267E-03	.0462	1.420E-03	.0518	1.180E-03	.0430
8.15	.158	594.37	1.421E-03	.0518	1.735E-03	.0633	1.951E-03	.0712	1.614E-03	.0589
8.60	.166	606.05	1.735E-03	.0633	2.126E-03	.0775	2.397E-03	.0874	1.975E-03	.0720
9.05	.175	624.23	2.251E-03	.0821	2.775E-03	.1012	3.141E-03	.1146	2.571E-03	.0938
9.49	.183	741.54	6.598E-03	.2406	8.535E-03	.3113	1.000E-02	.3648	7.760E-03	.2830
9.93	.192	718.49	5.285E-03	.1927	6.736E-03	.2457	7.808E-03	.2848	6.160E-03	.2247
10.37	.200	744.76	6.742E-03	.2459	8.735E-03	.3186	1.025E-02	.3738	7.937E-03	.2895
10.81	.209	759.49	7.416E-03	.2705	9.683E-03	.3531	1.143E-02	.4169	8.771E-03	.3199
11.24	.217	774.04	8.115E-03	.2960	1.068E-02	.3896	1.269E-02	.4628	9.644E-03	.3517
11.67	.226	785.32	8.683E-03	.3167	1.151E-02	.4196	1.374E-02	.5010	1.036E-02	.3778
12.10	.234	794.89	9.184E-03	.3350	1.224E-02	.4464	1.469E-02	.5356	1.100E-02	.4010
12.52	.242	803.63	9.495E-03	.3463	1.270E-02	.4632	1.528E-02	.5573	1.139E-02	.4155
12.94	.250	803.53	9.655E-03	.3521	1.294E-02	.4719	1.559E-02	.5687	1.160E-02	.4230
13.36	.258	804.63	9.716E-03	.3543	1.303E-02	.4753	1.571E-02	.5730	1.168E-02	.4258
13.78	.266	803.52	9.655E-03	.3521	1.294E-02	.4719	1.559E-02	.5686	1.160E-02	.4230
14.19	.274	806.83	9.840E-03	.3589	1.322E-02	.4820	1.595E-02	.5818	1.183E-02	.4316
14.60	.282	810.58	1.005E-02	.3666	1.353E-02	.4936	1.637E-02	.5970	1.211E-02	.4416
15.01	.290	810.93	1.007E-02	.3673	1.356E-02	.4947	1.641E-02	.5985	1.213E-02	.4425
15.41	.298	810.28	1.004E-02	.3660	1.351E-02	.4927	1.634E-02	.5959	1.209E-02	.4408
15.81	.306	812.01	1.013E-02	.3696	1.366E-02	.4981	1.653E-02	.6029	1.221E-02	.4454

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
108	8	TILE INSERT	0.175	.010	-.020	2.057E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.2	1326	39.16	39.99	30.00	-9.16	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.3	.0633	2.830	3842	5.517E-05	7.753E-08	2.734E 06	2.742E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
9.380	2.450	8.005	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.21	.313	812.42	1.016E-02	.3704	1.369E-02	.4994	1.658E-02	.6046	1.224E-02	.4465
16.61	.321	811.63	1.011E-02	.3688	1.363E-02	.4969	1.649E-02	.6014	1.219E-02	.4444
17.00	.329	815.64	1.034E-02	.3771	1.397E-02	.5095	1.694E-02	.6179	1.248E-02	.4551
17.39	.336	816.60	1.039E-02	.3791	1.405E-02	.5125	1.705E-02	.6220	1.255E-02	.4577
17.77	.344	817.37	1.044E-02	.3806	1.412E-02	.5149	1.714E-02	.6252	1.261E-02	.4597
18.16	.351	817.67	1.045E-02	.3813	1.415E-02	.5159	1.718E-02	.6265	1.263E-02	.4606
18.54	.358	816.76	1.040E-02	.3794	1.407E-02	.5131	1.707E-02	.6227	1.256E-02	.4582
18.92	.365	816.26	1.038E-02	.3784	1.402E-02	.5115	1.702E-02	.6206	1.253E-02	.4568
19.29	.373	817.41	1.044E-02	.3808	1.413E-02	.5152	1.715E-02	.6255	1.261E-02	.4599
19.66	.380	815.20	1.032E-02	.3762	1.393E-02	.5082	1.690E-02	.6163	1.245E-02	.4540
20.03	.387	815.20	1.032E-02	.3763	1.393E-02	.5082	1.690E-02	.6163	1.245E-02	.4540
20.40	.394	818.03	1.048E-02	.3821	1.418E-02	.5172	1.722E-02	.6281	1.266E-02	.4616
20.76	.401	819.37	1.055E-02	.3849	1.430E-02	.5214	1.738E-02	.6338	1.276E-02	.4653
21.12	.409	820.13	1.060E-02	.3865	1.436E-02	.5239	1.747E-02	.6371	1.282E-02	.4674
21.48	.415	820.26	1.061E-02	.3868	1.438E-02	.5243	1.748E-02	.6377	1.283E-02	.4678
21.84	.422	817.06	1.042E-02	.3802	1.410E-02	.5142	1.711E-02	.6242	1.259E-02	.4591
22.19	.429	817.53	1.045E-02	.3812	1.414E-02	.5157	1.717E-02	.6262	1.262E-02	.4604
22.54	.436	819.77	1.058E-02	.3858	1.433E-02	.5228	1.743E-02	.6356	1.279E-02	.4665
22.88	.442	820.35	1.061E-02	.3871	1.439E-02	.5247	1.750E-02	.6381	1.283E-02	.4681
23.23	.449	818.33	1.050E-02	.3829	1.421E-02	.5183	1.726E-02	.6296	1.268E-02	.4626
23.57	.456	819.38	1.055E-02	.3849	1.430E-02	.5214	1.738E-02	.6337	1.276E-02	.4652
23.91	.462	820.37	1.062E-02	.3871	1.439E-02	.5248	1.750E-02	.6383	1.284E-02	.4682

NASA/RI 0H69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
108	8	TILE INSERT	0.175	.010	-.020	2.057E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.2	1326	39.16	39.99	30.00	-9.16	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.3	.0633	2.830	3842	5.517E-05	7.753E-08	2.734E 06	2.742E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.380	2.450	8.005	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.24	.469	817.95	1.048E-02	.3821	1.418E-02	.5171	1.722E-02	.6281	1.266E-02	.4616
24.57	.475	815.99	1.037E-02	.3781	1.401E-02	.5110	1.700E-02	.6199	1.251E-02	.4564
24.90	.481	820.02	1.060E-02	.3865	1.436E-02	.5238	1.746E-02	.6369	1.281E-02	.4673
25.23	.488	818.25	1.050E-02	.3828	1.421E-02	.5182	1.726E-02	.6294	1.268E-02	.4625
25.55	.494	815.91	1.036E-02	.3780	1.401E-02	.5108	1.699E-02	.6197	1.251E-02	.4562
25.87	.500	809.81	1.002E-02	.3655	1.349E-02	.4918	1.630E-02	.5947	1.207E-02	.4401

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
108	8	TILE INSERT	0.175	.010	-.020	2.057E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.2	1326	39.16	39.99	30.00	-9.16	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.3	.0633	2.830	3842	5.517E-05	7.753E-08	2.734E 06	2.742E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.320	2.450	0.005	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.075	525.17	524.90	522.39	522.45	523.05	523.44	524.19	524.84	524.63	527.23
2.071	529.46	529.93	525.86	525.20	524.63	524.45	524.81	525.20	527.55	530.96
3.068	532.63	533.25	528.53	527.43	526.09	525.36	525.50	525.68	530.15	534.18
4.064	535.30	535.99	530.75	529.40	527.43	526.24	526.12	526.24	532.84	537.08
5.061	537.60	538.22	532.81	531.12	528.65	527.05	526.75	526.75	535.25	539.58
6.058	539.66	540.28	534.67	532.75	529.84	527.79	527.31	527.23	537.62	542.21
7.054	541.55	542.19	536.36	534.29	530.94	528.53	527.85	527.67	540.11	544.70
7.937	543.25	543.99	537.86	535.62	531.98	529.22	528.39	528.12	542.61	547.09
8.051	543.34	543.99	537.95	535.71	532.07	529.25	528.39	528.12	542.61	547.18
9.047	544.98	545.66	539.49	537.10	533.13	529.96	528.95	528.59	544.87	549.49
10.044	546.54	547.24	540.99	538.43	534.17	530.70	529.46	529.10	547.09	551.75
11.040	548.03	548.73	542.37	539.72	535.21	531.39	529.99	529.52	549.35	553.91

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H69
V41d-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
108	8	TILE INSERT	0.175	.010	-.020	2.057E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	613.2	1326	39.16	39.99	30.00	-9.16	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.3	.0633	2.830	3842	5.517E-05	7.753E-08	2.734E 06	2.742E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.380	2.450	8.005	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.274	1
7.973	2

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
109	8	TILE INSERT	0.175	.010	-.020	2.263E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.8	1326	39.08	40.00	30.00	-9.08	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.3	.0697	3.114	3842	6.070E-05	7.755E-08	3.007E 06	2.877E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
7.968	2.464	6.584	1000

X (IN)	X/L	TW. (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.24	.140	568.24	8.705E-04	.0303	1.055E-03	.0367	1.180E-03	.0410	9.841E-04	.0342
7.69	.149	587.13	1.383E-03	.0481	1.685E-03	.0586	1.892E-03	.0658	1.568E-03	.0545
8.15	.158	598.79	1.719E-03	.0598	2.102E-03	.0731	2.366E-03	.0823	1.954E-03	.0679
8.60	.166	611.82	2.113E-03	.0734	2.594E-03	.0902	2.928E-03	.1018	2.407E-03	.0837
9.05	.175	654.18	3.532E-03	.1228	4.400E-03	.1530	5.017E-03	.1744	4.061E-03	.1412
9.49	.183	751.01	7.769E-03	.2701	1.010E-02	.3510	1.188E-02	.4129	9.162E-03	.3185
9.93	.192	719.11	6.241E-03	.2170	7.985E-03	.2776	9.232E-03	.3227	7.292E-03	.2535
10.37	.200	762.54	8.359E-03	.2906	1.093E-02	.3800	1.292E-02	.4491	9.895E-03	.3440
10.81	.209	774.11	8.978E-03	.3120	1.181E-02	.4107	1.403E-02	.4878	1.067E-02	.3708
11.24	.217	782.38	9.432E-03	.3279	1.247E-02	.4336	1.487E-02	.5170	1.124E-02	.3907
11.67	.226	793.45	9.891E-03	.3438	1.314E-02	.4570	1.573E-02	.5469	1.182E-02	.4109
12.10	.234	796.95	1.027E-02	.3571	1.371E-02	.4765	1.646E-02	.5722	1.231E-02	.4278
12.52	.242	800.29	1.047E-02	.3641	1.400E-02	.4868	1.684E-02	.5856	1.256E-02	.4367
12.94	.250	801.74	1.056E-02	.3671	1.413E-02	.4914	1.701E-02	.5915	1.267E-02	.4406
13.36	.258	801.35	1.054E-02	.3663	1.410E-02	.4902	1.697E-02	.5899	1.265E-02	.4396
13.78	.266	802.01	1.058E-02	.3677	1.416E-02	.4923	1.705E-02	.5926	1.270E-02	.4414
14.19	.274	805.81	1.081E-02	.3758	1.451E-02	.5044	1.750E-02	.6084	1.300E-02	.4518
14.60	.282	808.19	1.096E-02	.3810	1.473E-02	.5121	1.779E-02	.6185	1.319E-02	.4584
15.01	.290	807.41	1.091E-02	.3793	1.466E-02	.5095	1.770E-02	.6152	1.312E-02	.4562
15.41	.298	808.26	1.096E-02	.3811	1.474E-02	.5123	1.780E-02	.6188	1.319E-02	.4586
15.81	.306	809.89	1.107E-02	.3847	1.489E-02	.5177	1.800E-02	.6258	1.332E-02	.4632

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
109	8	TILE INSERT	0.175	.010	-.020	2.263E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.8	1326	39.08	40.00	30.00	-9.08	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.3	.0697	3.114	3842	6.070E-05	7.755E-08	3.007E 06	2.877E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
7.968	2.464	6.584	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.21	.313	808.64	1.099E-02	.3820	1.477E-02	.5136	1.785E-02	.6205	1.322E-02	.4597
16.61	.321	809.68	1.105E-02	.3843	1.487E-02	.5170	1.798E-02	.6250	1.331E-02	.4626
17.00	.329	813.51	1.129E-02	.3925	1.523E-02	.5295	1.845E-02	.6414	1.361E-02	.4733
17.39	.336	813.24	1.128E-02	.3920	1.521E-02	.5286	1.842E-02	.6403	1.359E-02	.4726
17.77	.344	814.53	1.136E-02	.3948	1.533E-02	.5329	1.858E-02	.6459	1.370E-02	.4762
18.16	.351	814.73	1.137E-02	.3952	1.535E-02	.5336	1.860E-02	.6468	1.371E-02	.4768
18.54	.358	813.43	1.129E-02	.3924	1.523E-02	.5293	1.844E-02	.6412	1.361E-02	.4732
18.92	.366	813.43	1.129E-02	.3924	1.523E-02	.5294	1.844E-02	.6412	1.361E-02	.4732
19.29	.373	813.67	1.130E-02	.3930	1.525E-02	.5302	1.848E-02	.6423	1.363E-02	.4739
19.66	.380	811.16	1.115E-02	.3876	1.502E-02	.5220	1.817E-02	.6315	1.343E-02	.4669
20.03	.387	813.11	1.127E-02	.3918	1.520E-02	.5284	1.841E-02	.6399	1.359E-02	.4724
20.40	.394	815.46	1.142E-02	.3969	1.542E-02	.5361	1.870E-02	.6501	1.378E-02	.4789
20.76	.401	816.48	1.148E-02	.3991	1.552E-02	.5395	1.883E-02	.6546	1.386E-02	.4818
21.12	.408	817.63	1.155E-02	.4017	1.563E-02	.5434	1.898E-02	.6597	1.395E-02	.4851
21.48	.415	816.17	1.146E-02	.3985	1.549E-02	.5386	1.879E-02	.6533	1.384E-02	.4810
21.84	.422	814.13	1.134E-02	.3941	1.530E-02	.5318	1.854E-02	.6444	1.367E-02	.4752
22.19	.429	815.13	1.140E-02	.3963	1.539E-02	.5352	1.866E-02	.6489	1.375E-02	.4781
22.54	.436	817.40	1.154E-02	.4012	1.561E-02	.5427	1.895E-02	.6588	1.394E-02	.4846
22.88	.442	816.65	1.150E-02	.3996	1.554E-02	.5402	1.886E-02	.6555	1.388E-02	.4824
23.23	.449	816.06	1.146E-02	.3984	1.548E-02	.5383	1.878E-02	.6530	1.383E-02	.4808
23.57	.456	817.70	1.156E-02	.4019	1.564E-02	.5438	1.899E-02	.6602	1.396E-02	.4855
23.91	.462	816.61	1.149E-02	.3996	1.554E-02	.5402	1.886E-02	.6555	1.388E-02	.4824

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
109	8	TILE INSERT	0.175	.010	-.020	2.263E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.8	1326	39.08	40.00	30.00	-9.08	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.3	.0697	3.114	3842	6.070E-05	7.755E-08	3.007E 06	2.877E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
7.968	2.464	6.584	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.24	.469	813.61	1.131E-02	.3931	1.525E-02	.5303	1.848E-02	.6424	1.364E-02	.4740
24.57	.475	815.12	1.140E-02	.3964	1.540E-02	.5353	1.867E-02	.6490	1.376E-02	.4783
24.90	.481	817.60	1.156E-02	.4018	1.564E-02	.5435	1.898E-02	.6599	1.396E-02	.4853
25.23	.488	813.28	1.129E-02	.3925	1.523E-02	.5293	1.844E-02	.6411	1.361E-02	.4732
25.55	.494	810.14	1.109E-02	.3856	1.493E-02	.5190	1.805E-02	.6275	1.336E-02	.4644
25.87	.500	761.37	8.315E-03	.2891	1.087E-02	.3777	1.284E-02	.4462	9.838E-03	.3420

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
109	8	TILE INSERT	0.175	.010	-.020	2.263E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.8	1326	39.08	40.00	30.00	-9.08	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.3	.0697	3.114	3842	6.070E-05	7.755E-08	3.007E 06	2.877E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
7.968	2.464	6.584	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.081	525.59	525.71	522.99	523.20	523.77	523.98	524.54	525.11	521.02	524.90
2.077	529.99	530.88	526.54	526.06	525.44	525.05	525.20	525.47	523.86	529.30
3.074	533.25	534.35	529.28	528.39	526.96	526.00	525.91	526.00	526.34	532.57
4.070	535.97	537.13	531.59	530.44	528.36	526.93	526.60	526.51	528.89	535.97
5.067	538.40	539.58	533.67	532.30	529.57	527.76	527.23	527.08	531.67	538.91
6.064	540.66	541.69	535.59	533.99	530.91	528.56	527.82	527.61	534.22	541.85
6.566	541.75	542.78	536.48	534.79	531.50	528.95	528.12	527.85	535.61	543.27
7.060	542.75	543.75	537.36	535.56	532.07	529.34	528.39	528.12	536.72	544.38
8.057	544.66	545.60	539.04	537.10	533.22	530.11	528.98	528.59	539.18	547.00
9.053	546.39	547.33	540.66	538.57	534.56	530.85	529.54	529.07	542.03	549.62
10.050	548.03	548.97	542.17	539.90	535.44	531.59	530.08	529.57	544.74	552.23

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
109	8	TILE INSERT	0.175	.010	-.020	2.263E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.8	1326	39.08	40.00	30.00	-9.08	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.3	.0697	3.114	3842	6.070E-05	7.755E-08	3.007E 06	2.877E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
7.968	2.464	6.584	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
2.589	1
6.507	2

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
110	8	TILE INSERT	0.175	.010	-.020	2.249E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.4	1331	29.38	29.98	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.7	.0696	3.112	3849	6.044E-05	7.783E-08	2.989E 06	2.878E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.777	2.446	11.404	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.108	578.01	8.543E-04	.0297	1.038E-03	.0361	1.162E-03	.0404	1.011E-03	.0351
9.95	.192	639.33	2.273E-03	.0790	2.815E-03	.0979	3.196E-03	.1111	2.734E-03	.0950
10.33	.200	690.97	3.778E-03	.1313	4.770E-03	.1658	5.491E-03	.1908	4.620E-03	.1605
10.71	.207	707.41	4.315E-03	.1499	5.486E-03	.1906	6.347E-03	.2206	5.307E-03	.1844
11.10	.214	724.66	4.905E-03	.1705	6.285E-03	.2184	7.313E-03	.2542	6.073E-03	.2111
11.48	.222	743.42	5.580E-03	.1939	7.214E-03	.2507	8.452E-03	.2937	6.962E-03	.2419
11.85	.229	760.98	6.248E-03	.2171	8.151E-03	.2833	9.615E-03	.3342	7.855E-03	.2730
12.23	.236	773.45	6.746E-03	.2344	8.861E-03	.3079	1.091E-02	.3652	8.530E-03	.2964
12.60	.244	784.64	7.212E-03	.2506	9.534E-03	.3313	1.136E-02	.3949	9.169E-03	.3186
12.98	.251	790.97	7.484E-03	.2601	9.932E-03	.3452	1.187E-02	.4126	9.546E-03	.3317
13.35	.258	793.39	7.590E-03	.2638	1.009E-02	.3506	1.207E-02	.4196	9.693E-03	.3369
13.72	.265	795.95	7.704E-03	.2677	1.026E-02	.3564	1.229E-02	.4271	9.851E-03	.3424
14.08	.272	800.06	7.888E-03	.2741	1.053E-02	.3659	1.264E-02	.4393	1.011E-02	.3513
14.45	.279	803.90	8.064E-03	.2802	1.079E-02	.3749	1.296E-02	.4511	1.035E-02	.3598
14.81	.286	805.53	8.139E-03	.2829	1.090E-02	.3788	1.313E-02	.4562	1.046E-02	.3635
15.17	.293	805.66	8.146E-03	.2831	1.091E-02	.3791	1.314E-02	.4566	1.047E-02	.3639
15.53	.300	806.33	8.177E-03	.2842	1.096E-02	.3808	1.320E-02	.4587	1.051E-02	.3654
15.89	.307	807.18	8.217E-03	.2856	1.102E-02	.3828	1.328E-02	.4614	1.057E-02	.3673
16.25	.314	806.58	8.189E-03	.2846	1.097E-02	.3814	1.322E-02	.4595	1.053E-02	.3660
16.60	.321	807.92	8.252E-03	.2868	1.107E-02	.3846	1.335E-02	.4638	1.062E-02	.3690
16.96	.328	810.54	8.374E-03	.2910	1.125E-02	.3910	1.359E-02	.4721	1.079E-02	.3751

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
110	8	TILE INSERT	0.175	.010	-.020	2.249E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.4	1331	29.38	29.98	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.7	.0696	3.112	3849	6.044E-05	7.783E-08	2.989E 06	2.878E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.777	2.446	11.404	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	811.29	8.409E-03	.2922	1.130E-02	.3929	1.365E-02	.4745	1.084E-02	.3768
17.66	.341	812.93	8.486E-03	.2949	1.142E-02	.3968	1.381E-02	.4798	1.095E-02	.3806
18.01	.348	813.43	8.509E-03	.2957	1.146E-02	.3981	1.385E-02	.4814	1.098E-02	.3817
18.35	.355	813.36	8.507E-03	.2956	1.145E-02	.3979	1.385E-02	.4812	1.098E-02	.3816
18.70	.361	813.03	8.492E-03	.2951	1.143E-02	.3972	1.382E-02	.4802	1.096E-02	.3808
19.04	.368	814.46	8.559E-03	.2974	1.153E-02	.4007	1.395E-02	.4848	1.105E-02	.3842
19.38	.375	814.79	8.570E-03	.2978	1.155E-02	.4013	1.397E-02	.4856	1.107E-02	.3847
19.72	.381	812.33	8.460E-03	.2940	1.138E-02	.3955	1.375E-02	.4780	1.091E-02	.3793
20.06	.388	813.03	8.493E-03	.2951	1.143E-02	.3972	1.382E-02	.4802	1.096E-02	.3809
20.39	.394	815.26	8.596E-03	.2987	1.159E-02	.4027	1.403E-02	.4874	1.111E-02	.3860
20.73	.401	816.43	8.652E-03	.3007	1.167E-02	.4056	1.414E-02	.4913	1.119E-02	.3888
21.06	.407	817.29	8.692E-03	.3021	1.173E-02	.4077	1.422E-02	.4941	1.125E-02	.3908
21.39	.413	819.22	8.784E-03	.3053	1.187E-02	.4125	1.440E-02	.5005	1.139E-02	.3953
21.72	.420	817.28	8.692E-03	.3021	1.173E-02	.4077	1.422E-02	.4941	1.125E-02	.3908
22.05	.426	815.93	8.629E-03	.2999	1.164E-02	.4044	1.409E-02	.4897	1.115E-02	.3877
22.37	.432	816.85	8.675E-03	.3015	1.170E-02	.4068	1.416E-02	.4928	1.122E-02	.3899
22.69	.439	818.87	8.766E-03	.3047	1.185E-02	.4117	1.437E-02	.4994	1.135E-02	.3946
23.02	.445	818.31	8.742E-03	.3038	1.181E-02	.4103	1.432E-02	.4976	1.132E-02	.3933
23.34	.451	815.79	8.666E-03	.3012	1.169E-02	.4063	1.416E-02	.4923	1.121E-02	.3895
23.65	.457	818.01	8.728E-03	.3033	1.179E-02	.4096	1.429E-02	.4966	1.130E-02	.3926
23.97	.463	818.27	8.741E-03	.3038	1.181E-02	.4103	1.431E-02	.4975	1.131E-02	.3932
24.29	.469	816.01	8.635E-03	.3001	1.164E-02	.4047	1.410E-02	.4901	1.116E-02	.3879

NASA/SI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
110	8	TILE INSERT	0.175	.010	-.020	2.249E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.4	1331	29.38	29.98	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.7	.0696	3.112	3849	6.044E-05	7.783E-08	2.989E 06	2.878E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.777	2.446	11.404	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	815.41	8.607E-03	.2991	1.160E-02	.4032	1.405E-02	.4881	1.112E-02	.3865
24.91	.482	818.24	8.740E-03	.3037	1.180E-02	.4102	1.431E-02	.4974	1.131E-02	.3932
25.22	.487	815.17	8.596E-03	.2987	1.159E-02	.4026	1.402E-02	.4874	1.111E-02	.3860
25.53	.493	813.12	8.500E-03	.2954	1.144E-02	.3976	1.383E-02	.4807	1.097E-02	.3813
25.83	.499	802.27	7.997E-03	.2779	1.069E-02	.3714	1.285E-02	.4465	1.026E-02	.3565
26.14	.505	643.78	2.392E-03	.0831	2.967E-03	.1031	3.372E-03	.1172	2.881E-03	.1001

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
110	8	TILE INSERT	0.175	.010	-.020	2.249E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.4	1331	29.38	29.98	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.7	.0696	3.112	3849	6.044E-05	7.783E-08	2.989E 06	2.878E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.777	2.446	11.404	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.073	528.65	528.09	525.02	524.93	524.87	524.51	524.36	524.45	522.15	523.46
2.064	533.25	533.25	528.45	527.46	526.42	525.35	524.93	524.75	523.37	524.81
3.066	535.71	536.83	531.21	529.60	527.73	526.15	525.50	525.20	524.45	526.07
4.062	539.66	539.75	533.61	531.53	528.98	526.90	526.03	525.65	525.39	527.23
5.059	542.22	542.22	535.71	533.31	530.11	527.64	526.57	526.06	526.47	528.36
6.056	544.52	544.49	537.66	535.00	531.33	528.33	527.08	526.48	527.64	529.66
7.052	546.48	546.57	539.49	536.62	532.45	529.01	527.55	526.87	528.85	530.96
8.049	548.35	548.50	541.22	538.13	533.55	529.69	528.03	527.31	529.93	532.08
9.045	549.99	550.31	542.87	539.60	534.64	530.38	528.53	527.73	531.00	533.02
10.042	551.51	551.99	544.43	541.02	535.68	531.06	529.01	528.12	532.17	534.22
11.038	553.03	553.64	545.95	542.40	536.74	531.71	529.52	528.53	533.28	535.38
11.386	553.55	554.22	546.48	542.87	537.13	531.95	529.66	528.65	533.78	535.79
12.035	554.54	555.24	547.42	543.75	537.78	532.39	529.99	528.95	534.49	536.55
13.032	555.97	556.75	548.85	545.04	538.81	533.10	530.47	529.37	535.52	537.57
14.028	557.39	558.23	550.25	546.33	539.81	533.79	530.97	529.81	536.55	538.55
15.025	558.78	559.62	551.57	547.56	540.78	534.47	531.47	530.17	537.57	539.67

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
110	8	TILE INSERT	0.175	.010	-.020	2.249E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	674.4	1331	29.38	29.98	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.7	.0696	3.112	3849	6.044E-05	7.783E-08	2.989E 06	2.878E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
12.777	2.446	11.404	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.497	1
11.569	2

NASA/RI 0H69
V41B-E9A

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
111	B	TILE INSERT	0.175	.010	-.020	2.472E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
8.00	739.7	1326	29.32	29.98	30.00	.68	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0758	3.394	3843	6.614E-05	7.738E-08	3.285E 06	3.003E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
11.094	2.441	0.724	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.108	587.90	1.176E-03	.0392	1.434E-03	.0477	1.610E-03	.0536	1.396E-03	.0465
6.00	.116	563.01	6.250E-04	.0208	7.565E-04	.0252	8.454E-04	.0281	7.373E-04	.0245
9.95	.192	624.86	2.102E-03	.0700	2.592E-03	.0863	2.934E-03	.0977	2.519E-03	.0839
10.33	.200	693.91	4.247E-03	.1414	5.374E-03	.1789	6.196E-03	.2063	5.203E-03	.1732
10.71	.207	719.27	5.133E-03	.1709	6.565E-03	.2186	7.630E-03	.2541	6.346E-03	.2113
11.10	.214	734.32	5.751E-03	.1915	7.411E-03	.2468	8.662E-03	.2884	7.155E-03	.2383
11.48	.222	752.15	6.472E-03	.2155	8.416E-03	.2802	9.903E-03	.3297	8.114E-03	.2702
11.85	.229	766.61	7.087E-03	.2360	9.288E-03	.3093	1.099E-02	.3661	8.944E-03	.2978
12.23	.236	776.55	7.528E-03	.2507	9.922E-03	.3304	1.180E-02	.3928	9.546E-03	.3179
12.60	.244	783.85	7.863E-03	.2618	1.041E-02	.3465	1.242E-02	.4134	1.001E-02	.3332
12.98	.251	788.46	8.079E-03	.2690	1.072E-02	.3571	1.282E-02	.4269	1.031E-02	.3432
13.35	.258	791.73	8.187E-03	.2726	1.088E-02	.3623	1.302E-02	.4337	1.046E-02	.3481
13.72	.265	791.41	8.220E-03	.2737	1.093E-02	.3639	1.309E-02	.4358	1.050E-02	.3497
14.08	.272	795.80	8.432E-03	.2808	1.124E-02	.3743	1.349E-02	.4492	1.080E-02	.3595
14.45	.279	799.50	8.613E-03	.2868	1.151E-02	.3833	1.384E-02	.4608	1.105E-02	.3680
14.81	.286	800.51	8.664E-03	.2885	1.159E-02	.3858	1.394E-02	.4641	1.112E-02	.3703
15.17	.293	800.02	8.640E-03	.2877	1.155E-02	.3846	1.389E-02	.4625	1.109E-02	.3692
15.53	.300	801.46	8.712E-03	.2901	1.166E-02	.3882	1.403E-02	.4671	1.119E-02	.3726
15.89	.307	802.92	8.785E-03	.2925	1.177E-02	.3918	1.417E-02	.4719	1.129E-02	.3760
16.25	.314	801.74	8.726E-03	.2906	1.168E-02	.3889	1.406E-02	.4681	1.121E-02	.3732
16.60	.321	801.98	8.739E-03	.2910	1.170E-02	.3895	1.408E-02	.4689	1.123E-02	.3738

NASA/RI C369
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
111	8	TILE INSERT	0.175	.010	-.020	2.472E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
8.00	739.7	1326	29.32	29.98	30.00	.68	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0758	3.394	3843	6.614E-05	7.738E-08	3.285E 06	3.003E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.094	2.441	9.724	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
16.56	.328	805.22	8.902E-03	.2964	1.194E-02	.3976	1.440E-02	.4795	1.146E-02	.3815
17.31	.335	806.27	8.956E-03	.2982	1.202E-02	.4003	1.450E-02	.4829	1.153E-02	.3840
17.66	.341	807.31	9.009E-03	.3000	1.210E-02	.4029	1.461E-02	.4864	1.161E-02	.3865
18.01	.348	807.98	9.044E-03	.3011	1.215E-02	.4047	1.468E-02	.4887	1.166E-02	.3881
18.35	.355	808.98	9.095E-03	.3028	1.223E-02	.4077	1.478E-02	.4921	1.173E-02	.3906
18.70	.361	808.73	9.083E-03	.3024	1.221E-02	.4066	1.475E-02	.4913	1.171E-02	.3900
19.04	.368	809.51	9.123E-03	.3038	1.227E-02	.4087	1.483E-02	.4939	1.177E-02	.3919
19.38	.375	809.69	9.133E-03	.3041	1.229E-02	.4091	1.485E-02	.4945	1.178E-02	.3923
19.72	.381	807.86	9.039E-03	.3010	1.215E-02	.4044	1.467E-02	.4884	1.165E-02	.3879
20.06	.388	808.56	9.075E-03	.3022	1.220E-02	.4062	1.474E-02	.4907	1.170E-02	.3896
20.39	.394	810.37	9.168E-03	.3053	1.234E-02	.4109	1.492E-02	.4968	1.183E-02	.3940
20.73	.401	811.61	9.232E-03	.3074	1.244E-02	.4141	1.505E-02	.5010	1.192E-02	.3970
21.06	.407	812.72	9.288E-03	.3093	1.252E-02	.4169	1.516E-02	.5048	1.200E-02	.3997
21.39	.413	814.64	9.387E-03	.3126	1.267E-02	.4219	1.536E-02	.5114	1.214E-02	.4044
21.72	.420	812.44	9.275E-03	.3088	1.250E-02	.4163	1.513E-02	.5039	1.198E-02	.3991
22.05	.426	811.62	9.182E-03	.3057	1.236E-02	.4116	1.495E-02	.4978	1.185E-02	.3947
22.37	.432	811.44	9.224E-03	.3071	1.242E-02	.4137	1.503E-02	.5005	1.191E-02	.3967
22.69	.439	813.96	9.353E-03	.3114	1.262E-02	.4202	1.529E-02	.5091	1.210E-02	.4028
23.02	.445	813.37	9.323E-03	.3104	1.257E-02	.4187	1.523E-02	.5071	1.205E-02	.4014
23.34	.451	811.34	9.220E-03	.3070	1.242E-02	.4135	1.502E-02	.5003	1.191E-02	.3965
23.65	.457	813.65	9.338E-03	.3109	1.260E-02	.4194	1.526E-02	.5081	1.208E-02	.4021
23.97	.463	814.25	9.369E-03	.3120	1.264E-02	.4210	1.532E-02	.5102	1.212E-02	.4035

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
111	8	TILE INSERT	0.175	.010	-.020	2.472E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
8.00	739.7	1326	29.32	29.98	30.00	.68	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0758	3.394	3843	6.614E-05	7.738E-08	3.285E 06	3.003E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.094	2.441	9.724	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.29	.469	812.09	9.259E-03	.3083	1.248E-02	.4154	1.510E-02	.5028	1.196E-02	.3983
24.60	.475	810.33	9.168E-03	.3053	1.234E-02	.4109	1.492E-02	.4968	1.183E-02	.3940
24.91	.482	813.41	9.327E-03	.3106	1.258E-02	.4189	1.524E-02	.5074	1.206E-02	.4015
25.22	.487	812.52	9.282E-03	.3091	1.251E-02	.4166	1.515E-02	.5044	1.199E-02	.3994
25.53	.493	809.94	9.151E-03	.3047	1.231E-02	.4100	1.489E-02	.4957	1.181E-02	.3932
25.83	.499	804.12	8.854E-03	.2948	1.187E-02	.3952	1.430E-02	.4762	1.139E-02	.3792
26.14	.505	706.39	4.700E-03	.1565	5.980E-03	.1991	6.922E-03	.2305	5.785E-03	.1926

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
111	H	TILE INSERT	0.175	.010	-.020	2.472E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
8.00	739.7	1326	29.32	29.98	30.00	.68	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0758	3.394	3843	6.614E-05	7.738E-08	3.285E 06	3.003E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.094	2.441	9.724	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.071	525.68	525.38	522.21	522.06	522.12	521.50	521.26	521.35	522.83	522.60
2.067	530.88	530.67	525.77	524.72	523.50	522.36	521.83	521.65	524.09	524.04
3.064	534.64	534.44	528.65	526.99	524.87	523.14	522.42	522.09	525.30	525.53
4.060	537.72	537.45	531.15	529.01	526.21	523.95	522.99	522.54	526.51	526.83
5.057	540.34	540.11	533.40	530.88	527.43	524.72	523.56	523.02	527.59	528.09
6.054	542.67	542.46	535.47	532.66	528.65	525.44	524.10	523.47	528.71	529.30
7.050	544.69	544.69	537.39	534.32	529.81	526.15	524.60	523.83	530.06	530.73
8.047	546.63	546.74	539.22	535.92	530.97	526.84	525.11	524.27	531.36	532.12
9.043	548.50	548.65	540.96	537.45	532.10	527.55	525.62	524.72	532.48	533.24
9.736	549.67	549.87	542.11	538.45	532.87	528.06	525.94	525.02	533.28	534.04
10.040	550.25	550.49	542.67	538.96	533.25	528.30	526.12	525.17	533.60	534.40
11.036	551.92	552.27	544.28	540.43	534.35	529.01	526.63	525.59	534.71	535.79
12.033	553.58	553.93	545.81	541.84	535.44	529.69	527.14	526.00	536.14	537.13
13.030	555.21	555.53	547.30	543.22	536.39	530.41	527.64	526.45	537.30	538.55

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
111	8	TILE INSERT	0.175	.010	-.020	2.472E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
8.00	739.7	1326	29.32	29.98	30.00	.68	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0758	3.394	3843	6.614E-05	7.738E-08	3.285E 06	3.003E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
11.054	2.441	9.724	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.187	1
9.651	2

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
112	8	TILE INSERT	0.175	.010	-.020	2.688E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
8.00	803.4	1325	29.27	29.99	30.00	.73	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0823	3.687	3841	7.190E-05	7.731E-08	3.572E 06	3.129E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.322	2.450	8.946	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.108	584.17	1.054E-03	.0337	1.284E-03	.0410	1.441E-03	.0460	1.250E-03	.0399
9.95	.192	680.04	3.833E-03	.1225	4.824E-03	.1541	5.540E-03	.1770	4.674E-03	.1494
10.33	.200	719.78	5.311E-03	.1697	6.799E-03	.2173	7.907E-03	.2527	6.571E-03	.2100
10.71	.207	733.88	5.876E-03	.1878	7.573E-03	.2420	8.852E-03	.2829	7.311E-03	.2336
11.10	.214	749.35	6.524E-03	.2085	8.474E-03	.2708	9.963E-03	.3184	8.171E-03	.2611
11.48	.222	753.63	6.972E-03	.2228	9.105E-03	.2910	1.075E-02	.3435	8.772E-03	.2803
11.85	.229	774.11	7.629E-03	.2438	1.004E-02	.3210	1.193E-02	.3813	9.664E-03	.3088
12.23	.236	784.37	8.116E-03	.2594	1.075E-02	.3435	1.283E-02	.4101	1.033E-02	.3302
12.60	.244	791.89	8.486E-03	.2712	1.129E-02	.3608	1.353E-02	.4323	1.085E-02	.3466
12.98	.251	795.46	8.666E-03	.2769	1.156E-02	.3693	1.387E-02	.4432	1.110E-02	.3546
13.35	.258	796.14	8.702E-03	.2781	1.161E-02	.3710	1.394E-02	.4455	1.115E-02	.3563
13.72	.265	798.53	8.823E-03	.2819	1.179E-02	.3767	1.417E-02	.4528	1.132E-02	.3616
14.08	.272	801.86	8.995E-03	.2874	1.205E-02	.3849	1.450E-02	.4635	1.156E-02	.3694
14.45	.279	804.41	9.129E-03	.2917	1.224E-02	.3913	1.476E-02	.4718	1.175E-02	.3754
14.81	.286	805.27	9.174E-03	.2931	1.231E-02	.3934	1.485E-02	.4746	1.181E-02	.3774
15.17	.293	805.41	9.182E-03	.2934	1.232E-02	.3938	1.487E-02	.4751	1.182E-02	.3778
15.53	.300	806.62	9.246E-03	.2955	1.242E-02	.3969	1.499E-02	.4791	1.191E-02	.3807
15.89	.307	807.23	9.279E-03	.2965	1.247E-02	.3984	1.506E-02	.4812	1.196E-02	.3821
16.25	.314	806.34	9.232E-03	.2950	1.240E-02	.3962	1.497E-02	.4782	1.189E-02	.3800
16.60	.321	808.53	9.349E-03	.2987	1.257E-02	.4018	1.519E-02	.4855	1.206E-02	.3853
16.96	.328	810.49	9.453E-03	.3021	1.273E-02	.4068	1.540E-02	.4921	1.221E-02	.3900

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
112	8	TILE INSERT	0.175	.010	-.020	2.688E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
8.00	803.4	1325	29.27	29.99	30.00	.73	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0823	3.687	3841	7.190E-05	7.731E-08	3.572E 06	3.129E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.322	2.450	8.946	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	810.23	9.440E-03	.3017	1.271E-02	.4062	1.538E-02	.4913	1.219E-02	.3894
17.66	.341	811.85	9.528E-03	.3045	1.284E-02	.4104	1.555E-02	.4969	1.231E-02	.3934
18.01	.348	813.05	9.590E-03	.3065	1.294E-02	.4134	1.567E-02	.5008	1.240E-02	.3963
18.35	.355	813.52	9.614E-03	.3072	1.297E-02	.4146	1.572E-02	.5024	1.244E-02	.3974
18.70	.361	813.87	9.581E-03	.3062	1.292E-02	.4130	1.566E-02	.5003	1.239E-02	.3959
19.04	.368	814.16	9.651E-03	.3084	1.303E-02	.4163	1.574E-02	.5047	1.249E-02	.3990
19.38	.375	814.47	9.667E-03	.3089	1.305E-02	.4172	1.583E-02	.5058	1.251E-02	.3998
19.72	.381	812.15	9.548E-03	.3050	1.287E-02	.4113	1.559E-02	.4980	1.234E-02	.3943
20.06	.388	813.14	9.597E-03	.3067	1.295E-02	.4137	1.569E-02	.5013	1.241E-02	.3966
20.39	.394	814.79	9.686E-03	.3095	1.308E-02	.4180	1.586E-02	.5069	1.254E-02	.4006
20.73	.401	816.02	9.751E-03	.3116	1.318E-02	.4212	1.600E-02	.5111	1.263E-02	.4036
21.06	.407	817.02	9.805E-03	.3133	1.326E-02	.4238	1.610E-02	.5146	1.271E-02	.4061
21.39	.413	815.51	9.886E-03	.3159	1.339E-02	.4278	1.627E-02	.5199	1.282E-02	.4098
21.72	.420	815.92	9.747E-03	.3115	1.318E-02	.4210	1.599E-02	.5109	1.262E-02	.4034
22.05	.426	815.68	9.735E-03	.3111	1.316E-02	.4204	1.596E-02	.5101	1.261E-02	.4028
22.37	.432	817.01	9.806E-03	.3133	1.327E-02	.4239	1.611E-02	.5147	1.271E-02	.4061
22.69	.439	815.46	9.884E-03	.3159	1.338E-02	.4277	1.626E-02	.5197	1.282E-02	.4097
23.02	.445	817.16	9.815E-03	.3136	1.328E-02	.4243	1.612E-02	.5152	1.272E-02	.4065
23.34	.451	816.93	9.803E-03	.3132	1.326E-02	.4237	1.610E-02	.5144	1.270E-02	.4060
23.65	.457	818.53	9.889E-03	.3160	1.339E-02	.4279	1.627E-02	.5200	1.283E-02	.4099
23.97	.463	818.12	9.868E-03	.3153	1.336E-02	.4269	1.623E-02	.5186	1.280E-02	.4089
24.29	.469	815.33	9.718E-03	.3105	1.313E-02	.4196	1.593E-02	.5090	1.258E-02	.4021

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
112	8	TILE INSERT	0.175	.010	-.020	2.688E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
8.00	803.4	1325	29.27	29.99	30.00	.73	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0823	3.687	3841	7.190E-05	7.731E-08	3.572E 06	3.129E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.322	2.450	8.946	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	816.23	9.767E-03	.3121	1.321E-02	.4220	1.603E-02	.5121	1.265E-02	.4043
24.91	.482	814.32	9.933E-03	.3174	1.346E-02	.4301	1.636E-02	.5229	1.289E-02	.4119
25.22	.487	815.32	9.719E-03	.3106	1.313E-02	.4196	1.593E-02	.5090	1.258E-02	.4021
25.53	.493	813.23	9.608E-03	.3070	1.296E-02	.4142	1.571E-02	.5019	1.242E-02	.3970
25.83	.499	802.68	9.049E-03	.2891	1.212E-02	.3874	1.460E-02	.4667	1.163E-02	.3717
26.14	.505	653.62	2.953E-03	.0943	3.679E-03	.1175	4.194E-03	.1340	3.570E-03	.1141

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
112	8	TILE INSERT	0.175	.010	-.020	2.688E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
8.00	803.4	1325	29.27	29.99	30.00	.73	30.00	0

T - INF (DEG R)	P - INF (PSIA)	G - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0823	3.687	3841	7.190E-05	7.731E-08	3.572E 06	3.129E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.322	2.450	8.946	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.075	530.11	529.40	526.12	525.80	525.86	524.78	524.42	524.45	528.62	529.52
2.071	535.27	534.85	529.78	528.50	527.11	525.68	524.99	524.75	529.93	531.00
3.068	539.02	538.72	532.78	530.88	528.53	526.51	525.62	525.20	531.27	532.70
4.064	542.17	541.87	535.38	532.46	529.84	527.28	526.15	525.65	532.66	534.18
5.061	544.96	544.60	537.72	534.91	531.12	528.09	526.75	526.12	534.00	535.61
6.058	547.42	547.12	539.87	536.77	532.39	528.86	527.28	526.60	535.16	536.95
7.054	549.73	549.41	541.90	538.51	533.61	529.60	527.85	527.05	536.46	538.29
8.051	551.89	551.51	543.81	540.19	534.85	530.35	528.36	527.46	537.80	539.80
9.928	553.67	553.32	545.42	541.61	535.89	531.00	528.86	527.88	539.22	541.18
9.047	553.93	553.52	545.63	541.84	536.03	531.09	528.92	527.94	539.22	541.23
10.044	555.82	555.44	547.36	543.37	537.22	531.83	529.43	528.42	540.47	542.43
11.040	557.65	557.24	549.03	544.90	538.34	532.60	529.99	528.83	541.58	543.67
12.037	559.36	558.96	550.60	546.33	539.52	533.31	530.52	529.28	543.01	545.05
13.034	561.01	560.61	552.15	547.77	540.69	534.05	531.03	529.72	544.30	546.34

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
112	8	TILE INSERT	0.175	.010	-.020	2.688E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
8.00	803.4	1325	29.27	29.99	30.00	.73	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0823	3.687	3841	7.190E-05	7.731E-08	3.572E 06	3.129E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.322	2.450	8.946	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.813	1
8.901	2

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75 PAGE 1
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
113	8	TILE INSERT	0.175	.010	-.020	1.877E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.9	1323	29.51	30.01	30.00	.49	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0576	2.575	3838	5.029E-05	7.738E-08	2.495E 06	2.614E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.612	2.450	15.237	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.168	566.47	5.760E-04	.0220	6.981E-04	.0267	7.808E-04	.0299	6.802E-04	.0260
9.95	.192	601.33	1.220E-03	.0466	1.493E-03	.0571	1.682E-03	.0643	1.453E-03	.0556
10.33	.200	644.66	2.148E-03	.0821	2.668E-03	.1020	3.035E-03	.1161	2.590E-03	.0991
10.71	.207	668.37	2.733E-03	.1045	3.425E-03	.1310	3.921E-03	.1500	3.320E-03	.1270
11.10	.214	688.04	3.046E-03	.1165	3.834E-03	.1467	4.405E-03	.1685	3.715E-03	.1421
11.48	.222	700.67	3.625E-03	.1386	4.603E-03	.1761	5.321E-03	.2035	4.453E-03	.1703
11.85	.229	725.73	4.404E-03	.1685	5.660E-03	.2165	6.601E-03	.2525	5.466E-03	.2091
12.23	.236	742.13	4.891E-03	.1871	6.334E-03	.2422	7.429E-03	.2841	6.109E-03	.2337
12.60	.244	754.61	5.305E-03	.2029	6.914E-03	.2645	8.150E-03	.3117	6.663E-03	.2548
12.98	.251	765.46	5.678E-03	.2172	7.444E-03	.2847	8.815E-03	.3372	7.167E-03	.2741
13.35	.258	770.63	5.859E-03	.2241	7.704E-03	.2947	9.143E-03	.3497	7.414E-03	.2836
13.72	.265	775.91	6.087E-03	.2328	8.032E-03	.3072	9.560E-03	.3657	7.725E-03	.2955
14.08	.272	782.80	6.304E-03	.2411	8.348E-03	.3193	9.963E-03	.3811	8.024E-03	.3069
14.45	.279	789.41	6.554E-03	.2507	8.713E-03	.3333	1.043E-02	.3990	8.370E-03	.3202
14.81	.286	793.43	6.707E-03	.2566	8.940E-03	.3420	1.073E-02	.4102	8.585E-03	.3284
15.17	.293	795.29	6.781E-03	.2594	9.049E-03	.3461	1.087E-02	.4156	8.688E-03	.3323
15.53	.300	795.91	6.845E-03	.2618	9.144E-03	.3497	1.099E-02	.4203	8.777E-03	.3357
15.89	.307	795.85	6.922E-03	.2648	9.258E-03	.3541	1.114E-02	.4260	8.885E-03	.3398
16.25	.314	798.67	6.915E-03	.2645	9.248E-03	.3537	1.112E-02	.4255	8.875E-03	.3395
16.60	.321	800.72	6.997E-03	.2676	9.369E-03	.3584	1.128E-02	.4315	8.990E-03	.3439
16.96	.328	804.19	7.137E-03	.2730	9.575E-03	.3664	1.156E-02	.4420	9.188E-03	.3514

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
113	B	TILE INSERT	0.175	.010	-.020	1.877E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.9	1323	29.51	30.01	30.00	.49	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0576	2.575	3838	5.029E-05	7.738E-08	2.495E 06	2.614E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.612	2.450	15.237	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	805.51	7.191E-03	.2750	9.660E-03	.3695	1.166E-02	.4460	9.264E-03	.3543
17.60	.341	807.64	7.279E-03	.2784	9.792E-03	.3745	1.183E-02	.4527	9.389E-03	.3591
19.01	.368	807.89	7.289E-03	.2788	9.807E-03	.3751	1.185E-02	.4534	9.403E-03	.3597
19.35	.355	807.56	7.276E-03	.2783	9.787E-03	.3743	1.183E-02	.4524	9.384E-03	.3589
18.70	.361	807.27	7.264E-03	.2778	9.769E-03	.3737	1.181E-02	.4515	9.367E-03	.3583
19.14	.368	809.64	7.362E-03	.2816	9.917E-03	.3793	1.200E-02	.4590	9.507E-03	.3636
19.38	.375	809.70	7.365E-03	.2817	9.921E-03	.3795	1.200E-02	.4591	9.510E-03	.3638
19.72	.381	807.26	7.264E-03	.2778	9.769E-03	.3736	1.180E-02	.4515	9.367E-03	.3583
20.06	.388	808.60	7.319E-03	.2800	9.853E-03	.3769	1.191E-02	.4557	9.446E-03	.3613
20.39	.394	811.24	7.387E-03	.2826	9.955E-03	.3808	1.205E-02	.4609	9.543E-03	.3650
20.73	.401	811.75	7.449E-03	.2849	1.005E-02	.3844	1.217E-02	.4656	9.631E-03	.3684
21.06	.407	812.93	7.498E-03	.2868	1.012E-02	.3872	1.227E-02	.4693	9.700E-03	.3710
21.39	.413	814.97	7.582E-03	.2900	1.025E-02	.3921	1.244E-02	.4758	9.821E-03	.3756
21.72	.420	812.74	7.440E-03	.2865	1.011E-02	.3867	1.266E-02	.4687	9.689E-03	.3706
22.05	.426	811.29	7.431E-03	.2842	1.002E-02	.3833	1.214E-02	.4642	9.605E-03	.3674
22.37	.432	812.53	7.482E-03	.2862	1.010E-02	.3863	1.224E-02	.4681	9.678E-03	.3702
22.69	.439	814.68	7.571E-03	.2896	1.023E-02	.3914	1.242E-02	.4749	9.805E-03	.3750
23.02	.445	813.83	7.536E-03	.2882	1.018E-02	.3894	1.235E-02	.4722	9.755E-03	.3731
23.34	.451	812.38	7.475E-03	.2859	1.009E-02	.3859	1.222E-02	.4676	9.668E-03	.3698
23.65	.457	813.55	7.525E-03	.2878	1.016E-02	.3887	1.232E-02	.4714	9.739E-03	.3725
23.97	.463	813.99	7.543E-03	.2885	1.019E-02	.3898	1.236E-02	.4728	9.764E-03	.3735
24.29	.469	811.75	7.451E-03	.2850	1.005E-02	.3845	1.218E-02	.4657	9.633E-03	.3685

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
113	A	TILE INSERT	0.175	.010	-.020	1.877E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.9	1323	29.51	30.01	30.00	.49	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0576	2.575	3834	5.029E-05	7.738E-08	2.495E 06	2.614E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
16.612	2.450	15.237	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.00	.475	813.69	7.408E-03	.2833	9.986E-03	.3819	1.209E-02	.4624	9.571E-03	.3661
24.41	.482	813.06	7.505E-03	.2871	1.013E-02	.3876	1.228E-02	.4699	9.711E-03	.3714
25.22	.487	810.21	7.388E-03	.2826	9.956E-03	.3808	1.205E-02	.4609	9.544E-03	.3650
25.53	.493	809.42	7.314E-03	.2797	9.844E-03	.3765	1.190E-02	.4553	9.438E-03	.3610
25.83	.499	799.88	6.967E-03	.2665	9.325E-03	.3567	1.122E-02	.4293	8.948E-03	.3422
26.14	.505	657.07	2.445E-03	.0935	3.051E-03	.1167	3.483E-03	.1332	2.960E-03	.1132

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
113	8	TILE INSERT	0.175	.010	-.020	1.877E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.9	1323	29.51	30.01	30.00	.49	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0576	2.575	3838	5.029E-05	7.738E-08	2.495E 06	2.614E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
16.612	2.450	15.237	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.075	529.31	528.59	525.74	525.35	525.23	524.36	523.92	523.92	530.19	530.96
2.071	533.73	533.25	528.80	527.64	526.45	525.14	524.48	524.21	531.09	531.90
3.068	536.89	536.54	531.30	529.60	527.67	525.86	525.02	524.63	531.94	532.88
4.064	539.58	539.13	533.49	531.36	528.80	526.57	525.53	525.05	532.66	533.73
5.061	541.93	541.46	535.44	532.99	529.90	527.23	526.00	525.44	533.42	534.63
6.058	544.07	543.55	537.25	534.56	530.94	527.85	526.48	525.83	534.31	535.47
7.054	546.01	545.48	538.93	536.00	531.95	528.47	526.93	526.18	535.30	536.55
8.051	547.86	547.24	540.52	537.42	532.96	529.10	527.37	526.57	536.05	537.35
9.047	549.58	548.97	542.05	538.78	533.96	529.72	527.82	526.99	536.81	538.24
10.044	551.16	550.55	543.52	540.08	534.94	530.38	528.27	527.34	537.66	539.00
11.040	552.71	552.06	544.90	541.34	535.92	530.97	528.71	527.67	538.60	539.94
12.037	554.19	553.52	546.25	542.58	536.86	531.59	529.13	528.09	539.49	540.96
13.034	555.59	554.93	547.53	543.81	537.81	532.22	529.63	528.47	540.25	541.72
14.030	556.92	556.23	548.82	544.96	538.75	532.87	530.05	528.86	541.09	542.52
15.027	558.23	557.53	550.02	546.07	539.66	533.52	530.52	529.22	541.94	543.41
15.219	558.49	557.77	550.22	546.30	539.84	533.58	530.61	529.31	542.07	543.58
16.023	559.51	559.75	551.19	547.21	540.55	534.11	530.97	529.60	542.87	544.38
17.020	560.73	560.00	552.36	548.27	541.46	534.76	531.44	530.02	543.58	545.05
18.016	561.88	561.13	553.46	549.35	542.34	535.41	531.92	530.44	544.34	545.85
19.013	563.04	562.29	554.57	550.37	543.22	536.06	532.42	530.85	545.14	546.69
20.010	564.17	563.39	555.62	551.39	544.10	536.68	532.87	531.24	546.07	547.58

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0869
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
113	8	TILE INSERT	0.175	.010	-.020	1.877E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.9	1323	29.51	30.01	30.00	.49	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0576	2.575	3838	5.029E-05	7.738E-08	2.495E 06	2.614E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
16.612	2.450	15.237	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.006	565.29	564.51	556.66	552.38	544.96	537.33	533.40	531.68	546.96	548.47
22.033	566.30	565.55	557.71	553.35	545.78	537.98	533.87	532.10	547.63	549.22
22.999	567.37	566.56	558.70	554.31	546.63	538.63	534.35	532.51	548.38	549.93
23.946	568.38	567.60	559.68	555.30	547.45	539.28	534.88	532.90	549.31	550.86

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
113	8	TILE INSERT	0.175	.010	-.020	1.877E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.9	1323	29.51	30.01	30.00	.49	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0576	2.575	3838	5.029E-05	7.738E-08	2.495E 06	2.614E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
16.612	2.450	15.237	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.718	1
10.245	2
15.356	3

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
114	8	TILE INSERT	0.175	.010	-.020	1.882E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.4	1320	39.25	40.01	30.00	-9.25	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0576	2.572	3834	5.036E-05	7.720E-08	2.501E 06	2.612E-02	64

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.802	2.459	9.421	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	565.74	8.372E-04	.0320	1.015E-03	.0388	1.135E-03	.0435	9.464E-04	.0362
8.15	.158	585.31	1.288E-03	.0493	1.570E-03	.0601	1.763E-03	.0675	1.461E-03	.0559
8.60	.166	595.47	1.536E-03	.0588	1.872E-03	.0719	2.114E-03	.0809	1.746E-03	.0668
9.05	.175	611.06	1.936E-03	.0741	2.379E-03	.0911	2.686E-03	.1028	2.207E-03	.0845
9.49	.183	693.09	4.503E-03	.1724	5.704E-03	.2184	6.582E-03	.2520	5.229E-03	.2002
9.93	.192	743.04	6.452E-03	.2470	8.366E-03	.3203	9.823E-03	.3760	7.598E-03	.2909
10.37	.200	729.61	5.901E-03	.2259	7.600E-03	.2909	8.878E-03	.3399	6.921E-03	.2650
10.81	.209	745.54	6.558E-03	.2510	8.514E-03	.3259	1.001E-02	.3830	7.725E-03	.2959
11.24	.217	759.67	7.123E-03	.2727	9.313E-03	.3565	1.100E-02	.4213	8.430E-03	.3227
11.67	.226	772.33	7.739E-03	.2962	1.020E-02	.3903	1.212E-02	.4639	9.201E-03	.3522
12.10	.234	784.64	8.320E-03	.3185	1.104E-02	.4227	1.320E-02	.5054	9.935E-03	.3803
12.52	.242	792.67	8.714E-03	.3336	1.162E-02	.4449	1.395E-02	.5341	1.044E-02	.3995
12.94	.250	796.16	8.890E-03	.3403	1.188E-02	.4549	1.429E-02	.5471	1.066E-02	.4081
13.36	.258	799.24	9.047E-03	.3463	1.212E-02	.4639	1.459E-02	.5587	1.086E-02	.4158
13.78	.266	799.37	9.054E-03	.3466	1.213E-02	.4643	1.461E-02	.5592	1.087E-02	.4162
14.19	.274	801.71	9.175E-03	.3512	1.231E-02	.4712	1.484E-02	.5683	1.103E-02	.4221
14.60	.282	805.53	9.373E-03	.3588	1.261E-02	.4826	1.524E-02	.5832	1.128E-02	.4319
15.01	.290	807.22	9.464E-03	.3623	1.274E-02	.4879	1.542E-02	.5901	1.140E-02	.4364
15.41	.298	806.77	9.441E-03	.3614	1.271E-02	.4865	1.537E-02	.5883	1.137E-02	.4352
15.81	.306	807.75	9.493E-03	.3634	1.279E-02	.4895	1.547E-02	.5923	1.144E-02	.4378
16.21	.313	808.04	9.509E-03	.3640	1.281E-02	.4905	1.550E-02	.5935	1.146E-02	.4386

NASA/BI 0H62
V41H-E9A

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
114	8	TILE INSERT	0.175	.010	-.020	1.882E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.4	1320	39.25	40.01	30.00	-9.25	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0576	2.572	3834	5.036E-05	7.720E-08	2.501E 06	2.612E-02	64

TOTAL TIME SECONDS	INJECT. TIME SECONDS	DELTA SECONDS	MONITOR SENSITIVITY
10.802	2.459	9.421	1000.

X (IN)	X/L	TW (DEG F)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	807.32	9.471E-03	.3626	1.275E-02	.4882	1.543E-02	.5906	1.141E-02	.4367
17.00	.329	811.44	9.691E-03	.3710	1.309E-02	.5010	1.587E-02	.6074	1.169E-02	.4476
17.39	.336	812.93	9.768E-03	.3739	1.320E-02	.5055	1.602E-02	.6134	1.179E-02	.4514
17.77	.344	813.95	9.771E-03	.3740	1.321E-02	.5056	1.603E-02	.6136	1.179E-02	.4515
18.16	.351	813.90	9.821E-03	.3760	1.329E-02	.5086	1.613E-02	.6179	1.186E-02	.4540
18.54	.358	813.97	9.826E-03	.3761	1.329E-02	.5088	1.614E-02	.6178	1.187E-02	.4543
18.92	.366	813.09	9.779E-03	.3744	1.322E-02	.5061	1.605E-02	.6142	1.181E-02	.4519
19.29	.373	813.56	9.803E-03	.3753	1.326E-02	.5075	1.609E-02	.6161	1.184E-02	.4531
19.66	.380	813.19	9.785E-03	.3746	1.323E-02	.5065	1.606E-02	.6147	1.181E-02	.4522
20.03	.387	811.90	9.717E-03	.3720	1.313E-02	.5025	1.592E-02	.6094	1.173E-02	.4489
20.40	.394	814.23	9.841E-03	.3767	1.332E-02	.5097	1.617E-02	.6190	1.189E-02	.4550
20.76	.401	815.52	9.910E-03	.3794	1.342E-02	.5138	1.631E-02	.6244	1.194E-02	.4584
21.12	.408	815.73	9.973E-03	.3818	1.352E-02	.5175	1.644E-02	.6293	1.206E-02	.4616
21.48	.415	816.58	1.007E-02	.3857	1.367E-02	.5234	1.665E-02	.6372	1.219E-02	.4666
21.84	.422	815.96	9.934E-03	.3803	1.346E-02	.5152	1.636E-02	.6262	1.201E-02	.4596
22.19	.429	813.92	9.826E-03	.3762	1.329E-02	.5089	1.614E-02	.6178	1.187E-02	.4543
22.54	.436	815.38	9.902E-03	.3791	1.341E-02	.5138	1.629E-02	.6237	1.197E-02	.4581
22.88	.442	817.91	1.004E-02	.3843	1.362E-02	.5214	1.657E-02	.6345	1.214E-02	.4649
23.23	.449	816.25	9.951E-03	.3809	1.348E-02	.5161	1.639E-02	.6279	1.203E-02	.4605
23.57	.456	814.81	9.874E-03	.3780	1.337E-02	.5117	1.624E-02	.6216	1.193E-02	.4567
23.91	.462	817.19	1.000E-02	.3829	1.356E-02	.5194	1.650E-02	.6319	1.209E-02	.4630
24.24	.469	816.50	9.966E-03	.3815	1.351E-02	.5170	1.642E-02	.6286	1.205E-02	.4612

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
114	8	TILE INSERT	0.175	.010	-.020	1.882E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.4	1320	39.25	40.01	30.00	-9.25	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0576	2.572	3834	5.036E-05	7.720E-08	2.501E 06	2.612E-02	64

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.802	2.459	9.421	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	813.57	9.810E-03	.3755	1.327E-02	.5079	1.610E-02	.6165	1.184E-02	.4534
24.90	.481	815.45	9.910E-03	.3794	1.342E-02	.5137	1.631E-02	.6243	1.198E-02	.4584
25.23	.488	816.61	9.973E-03	.3818	1.352E-02	.5174	1.644E-02	.6292	1.206E-02	.4615
25.55	.494	814.30	9.849E-03	.3770	1.333E-02	.5102	1.618E-02	.6196	1.190E-02	.4554
25.87	.500	810.07	9.626E-03	.3685	1.299E-02	.4971	1.573E-02	.6023	1.161E-02	.4443

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
114	8	TILE INSERT	0.175	.010	-.020	1.882E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.4	1320	39.25	40.01	30.00	-9.25	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0576	2.572	3834	5.036E-05	7.720E-08	2.501E 06	2.612E-02	64

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
10.802	2.459	9.421	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.079	529.13	529.01	526.45	526.30	526.27	525.44	525.11	525.17	527.14	529.07
2.075	533.31	533.76	529.72	528.92	527.85	526.45	525.77	525.56	529.39	532.08
3.072	535.33	536.92	532.33	531.03	529.28	527.34	526.45	526.09	531.58	534.67
4.068	538.90	539.49	534.50	532.87	530.55	528.21	527.08	526.60	533.91	537.35
5.065	541.17	541.72	536.45	534.59	532.25	529.01	527.70	527.11	536.14	539.85
6.062	543.22	543.75	538.25	536.18	532.93	529.78	528.30	527.64	538.38	542.12
7.058	545.13	545.66	539.93	537.66	534.02	530.52	528.83	528.12	540.34	544.21
8.055	546.89	547.39	541.55	539.10	535.09	531.27	529.37	528.56	542.47	546.61
9.051	548.56	549.03	543.02	540.46	536.15	531.92	529.90	529.04	544.74	548.65
9.493	549.11	549.61	543.55	540.93	536.51	532.19	530.08	529.22	545.36	549.35
10.048	550.17	550.60	544.49	541.78	537.19	532.63	530.44	529.52	546.69	550.82
11.044	551.68	552.12	545.89	543.05	538.19	533.34	530.97	529.99	548.65	552.59
12.041	553.14	553.55	547.24	544.34	539.19	534.02	531.50	530.47	550.68	554.75
13.038	554.54	554.92	548.56	545.54	540.16	534.70	532.01	530.88	552.76	556.87
14.034	555.88	556.26	549.82	546.74	541.17	535.41	532.54	531.36	554.89	558.90
15.031	557.19	557.56	551.04	547.89	542.14	536.12	533.08	531.83	556.74	560.80
16.027	558.43	558.81	552.27	549.00	543.08	536.86	533.61	532.30	558.59	562.65
17.024	559.68	560.03	553.40	550.08	544.22	537.51	534.11	532.75	560.67	564.72

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
114	B	TILE INSERT	0.175	.010	-.020	1.882E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	557.4	1320	39.25	40.01	30.00	-9.25	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0576	2.572	3434	5.036E-05	7.720E-08	2.501E 06	2.612E-02	64

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
10.862	2.459	9.421	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
7.342	1
9.036	2
11.812	3

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
115	B	TILE INSERT	0.175	.010	-.020	1.688E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.4	1313	29.57	30.02	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0515	2.294	3823	4.516E-05	7.697E-08	2.243E 06	2.465E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
24.397	2.441	23.027	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	593.20	8.485E-04	.0344	1.038E-03	.0421	1.168E-03	.0474	1.010E-03	.0410
10.33	.200	630.46	1.479E-03	.0600	1.831E-03	.0743	2.078E-03	.0843	1.778E-03	.0721
10.71	.207	645.37	1.756E-03	.0713	2.186E-03	.0887	2.491E-03	.1011	2.122E-03	.0861
11.10	.214	656.36	1.972E-03	.0800	2.465E-03	.1000	2.817E-03	.1143	2.390E-03	.0970
11.48	.222	672.82	2.323E-03	.0942	2.922E-03	.1186	3.355E-03	.1361	2.831E-03	.1149
11.85	.229	689.57	2.701E-03	.1096	3.422E-03	.1388	3.948E-03	.1602	3.312E-03	.1344
12.23	.236	704.92	3.064E-03	.1243	3.908E-03	.1585	4.531E-03	.1838	3.778E-03	.1533
12.60	.244	719.78	3.430E-03	.1392	4.405E-03	.1787	5.134E-03	.2083	4.254E-03	.1726
12.98	.251	733.85	3.791E-03	.1538	4.902E-03	.1989	5.744E-03	.2330	4.730E-03	.1919
13.35	.258	746.42	3.965E-03	.1608	5.144E-03	.2087	6.042E-03	.2451	4.960E-03	.2012
13.72	.265	758.94	4.251E-03	.1725	5.546E-03	.2250	6.543E-03	.2655	5.344E-03	.2168
14.08	.272	762.66	4.591E-03	.1859	6.016E-03	.2441	7.133E-03	.2894	5.790E-03	.2349
14.45	.279	773.19	4.890E-03	.1984	6.461E-03	.2621	7.697E-03	.3123	6.212E-03	.2520
14.81	.286	782.51	5.111E-03	.2074	6.783E-03	.2752	8.110E-03	.3290	6.517E-03	.2644
15.17	.293	785.74	5.273E-03	.2139	7.021E-03	.2848	8.416E-03	.3414	6.742E-03	.2736
15.53	.300	791.23	5.445E-03	.2209	7.276E-03	.2952	8.745E-03	.3548	6.983E-03	.2833
15.89	.307	794.97	5.567E-03	.2259	7.456E-03	.3025	8.980E-03	.3643	7.154E-03	.2903
16.25	.314	797.73	5.657E-03	.2295	7.591E-03	.3080	9.156E-03	.3715	7.281E-03	.2954
16.60	.321	801.87	5.795E-03	.2351	7.797E-03	.3163	9.426E-03	.3824	7.475E-03	.3033
16.96	.328	808.01	6.003E-03	.2436	8.112E-03	.3291	9.839E-03	.3992	7.772E-03	.3153
17.31	.335	811.70	6.129E-03	.2487	8.303E-03	.3369	1.009E-02	.4095	7.952E-03	.3226

NASA/RI OHAO
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
115	8	TILE INSERT	0.175	.010	-.020	1.688E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.4	1313	29.57	30.02	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0515	2.294	3823	4.516E-05	7.697E-08	2.243E 06	2.465E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.397	2.441	23.027	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	R14.49	6.225E-03	.2526	8.450E-03	.3428	1.029E-02	.4174	8.089E-03	.3282
18.01	.348	R16.04	6.278E-03	.2547	8.532E-03	.3462	1.040E-02	.4219	8.167E-03	.3313
18.35	.355	R17.22	6.319E-03	.2564	8.595E-03	.3487	1.048E-02	.4253	8.226E-03	.3337
18.70	.361	R17.99	6.346E-03	.2575	8.636E-03	.3504	1.054E-02	.4275	8.265E-03	.3353
19.04	.368	R19.79	6.409E-03	.2600	8.733E-03	.3543	1.067E-02	.4328	8.355E-03	.3390
19.38	.375	R20.83	6.445E-03	.2615	8.789E-03	.3566	1.074E-02	.4358	8.408E-03	.3411
19.72	.381	R19.61	6.403E-03	.2598	8.723E-03	.3539	1.065E-02	.4323	8.347E-03	.3386
20.06	.388	R20.62	6.438E-03	.2612	8.778E-03	.3561	1.073E-02	.4352	8.397E-03	.3407
20.39	.394	R23.22	6.529E-03	.2649	8.919E-03	.3619	1.092E-02	.4429	8.530E-03	.3461
20.73	.401	R25.25	6.600E-03	.2678	9.031E-03	.3664	1.107E-02	.4491	8.635E-03	.3503
21.06	.407	R26.79	6.655E-03	.2700	9.116E-03	.3699	1.118E-02	.4538	8.715E-03	.3536
21.39	.413	R29.13	6.738E-03	.2734	9.247E-03	.3752	1.136E-02	.4609	8.837E-03	.3585
21.72	.420	R26.80	6.656E-03	.2700	9.117E-03	.3699	1.118E-02	.4538	8.715E-03	.3536
22.05	.426	R25.45	6.608E-03	.2681	9.042E-03	.3669	1.108E-02	.4497	8.646E-03	.3508
22.37	.432	R26.33	6.639E-03	.2694	9.091E-03	.3688	1.115E-02	.4524	8.691E-03	.3526
22.69	.439	R29.03	6.735E-03	.2733	9.242E-03	.3750	1.135E-02	.4607	8.832E-03	.3583
23.02	.445	R28.32	6.710E-03	.2722	9.202E-03	.3733	1.130E-02	.4585	8.795E-03	.3568
23.34	.451	R26.01	6.628E-03	.2689	9.073E-03	.3681	1.113E-02	.4514	8.675E-03	.3520
23.65	.457	R27.44	6.679E-03	.2710	9.153E-03	.3714	1.123E-02	.4558	8.749E-03	.3550
23.97	.463	R28.68	6.723E-03	.2728	9.223E-03	.3742	1.133E-02	.4596	8.815E-03	.3576
24.29	.469	R26.64	6.651E-03	.2699	9.110E-03	.3696	1.118E-02	.4534	8.709E-03	.3534
24.60	.475	R25.57	6.613E-03	.2683	9.050E-03	.3672	1.109E-02	.4501	8.653E-03	.3511

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
115	8	TILE INSERT	0.175	.010	-.020	1.688E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.4	1313	29.57	30.02	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0515	2.244	3823	4.516E-05	7.697E-08	2.243E 06	2.465E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.397	2.441	23.027	1000

X (IN)	X/L	TW. (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	827.51	6.682E-03	.2711	9.158E-03	.3715	1.124E-02	.4560	8.754E-03	.3552
25.22	.487	824.81	6.546E-03	.2672	9.008E-03	.3655	1.104E-02	.4478	8.614E-03	.3495
25.53	.493	822.53	6.508E-03	.2640	8.887E-03	.3605	1.087E-02	.4412	8.500E-03	.3448
25.83	.499	815.37	6.257E-03	.2539	8.499E-03	.3448	1.035E-02	.4201	8.136E-03	.3301
26.14	.505	702.83	3.015E-03	.1223	3.842E-03	.1559	4.452E-03	.1806	3.715E-03	.1507

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
115	8	TILE INSERT	0.175	.010	-.020	1.688E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.4	1313	29.57	30.02	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0515	2.294	3823	4.516E-05	7.697E-08	2.243E 06	2.465E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
24.397	2.441	23.027	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.071	528.21	527.55	524.75	524.54	524.21	523.59	523.23	523.20	531.54	531.90
2.067	532.30	531.98	527.64	526.72	525.56	524.36	523.74	523.53	531.99	532.75
3.064	535.30	535.00	529.99	528.53	526.69	525.05	524.24	523.92	532.57	533.37
4.060	537.81	537.45	532.01	530.17	527.73	525.68	524.72	524.27	533.24	534.13
5.057	539.99	539.63	533.82	531.71	528.74	526.30	525.17	524.63	534.09	535.07
6.054	541.99	541.58	535.50	533.16	529.75	526.90	525.62	525.02	534.76	535.70
7.050	543.81	543.40	537.10	534.53	530.70	527.52	526.03	525.41	535.38	536.37
8.047	545.46	545.04	538.57	535.83	531.65	528.09	526.45	525.74	536.05	537.13
9.043	547.10	546.60	539.96	537.07	532.54	528.65	526.67	526.06	536.77	537.84
10.040	548.59	548.12	541.34	538.31	533.46	529.25	527.26	526.42	537.62	538.69
11.036	550.02	549.49	542.64	539.49	534.38	529.81	527.67	526.78	538.15	539.36
12.033	551.42	550.84	543.90	540.64	535.27	530.41	528.12	527.14	538.73	539.89
13.030	552.71	552.15	545.10	541.75	536.15	530.97	528.50	527.46	539.49	540.65
14.026	553.99	553.40	546.27	542.84	537.01	531.56	528.95	527.82	540.34	541.49
15.023	555.18	554.60	547.42	543.90	537.86	532.16	529.37	528.18	540.96	542.12
16.019	556.34	555.73	548.50	544.93	538.72	532.75	529.81	528.56	541.54	542.78
17.016	557.51	556.87	549.58	545.92	539.55	533.34	530.23	528.92	542.21	543.36
18.012	558.61	557.97	550.60	546.89	540.37	533.93	530.67	529.25	543.01	544.16
19.009	559.68	559.01	551.63	547.86	541.19	534.53	531.12	529.63	543.67	545.01
20.006	560.73	560.06	552.65	548.79	541.99	535.12	531.59	530.05	544.25	545.54
21.002	561.74	561.07	553.61	549.73	542.78	535.74	532.04	530.47	544.87	546.16

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
115	8	TILE INSERT	0.175	.010	-.020	1.688E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.4	1313	29.57	30.02	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0515	2.294	3823	4.516E-05	7.697E-08	2.243E 06	2.465E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.397	2.441	23.027	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.995	562.72	562.06	554.54	550.63	543.58	536.33	532.51	530.79	545.58	546.83
22.995	563.70	563.01	555.50	551.54	544.34	536.92	532.96	531.18	546.38	547.67
23.039	563.70	563.04	555.50	551.54	544.37	536.92	532.96	531.18	546.38	547.63
23.992	564.66	563.94	556.40	552.38	545.13	537.51	533.40	531.59	546.96	548.29
24.988	565.55	564.86	557.30	553.26	545.86	538.10	533.87	532.01	547.49	548.78
25.985	566.45	565.78	558.20	554.10	546.63	538.72	534.35	532.39	548.20	549.58
26.982	567.37	566.65	559.04	554.95	547.36	539.28	534.82	532.78	548.91	550.20
27.978	568.20	567.54	559.91	555.91	548.76	539.90	535.35	533.22	549.67	550.95

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
115	8	TILE INSERT	0.175	.010	-.020	1.688E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	494.4	1313	29.57	30.02	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.6	.0515	2.294	3823	4.516E-05	7.697E-08	2.243E 06	2.465E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.397	2.441	23.027	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.484	1
8.237	2
23.114	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/BI 0H69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
116	8	TILE INSERT	0.175	.010	-.020	1.694E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.3	1309	39.33	40.01	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.3	.0514	2.289	3817	4.523E-05	7.670E-08	2.251E 06	2.461E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
13.456	2.450	12.581	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	570.62	6.917E-04	.0281	8.408E-04	.0342	9.423E-04	.0383	7.833E-04	.0318
8.15	.158	582.82	9.363E-04	.0380	1.142E-03	.0464	1.283E-03	.0522	1.063E-03	.0432
8.60	.166	595.25	1.198E-03	.0487	1.466E-03	.0596	1.653E-03	.0672	1.363E-03	.0554
9.05	.175	623.27	1.837E-03	.0747	2.271E-03	.0923	2.575E-03	.1046	2.102E-03	.0854
9.49	.183	748.87	5.713E-03	.2322	7.457E-03	.3030	8.799E-03	.3576	6.755E-03	.2745
9.93	.192	719.32	4.351E-03	.1768	5.569E-03	.2263	6.470E-03	.2632	5.084E-03	.2066
10.37	.200	735.16	5.211E-03	.2118	6.752E-03	.2744	7.923E-03	.3220	6.134E-03	.2493
10.81	.209	74[illegible].96	5.421E-03	.2203	7.045E-03	.2863	8.266E-03	.3367	6.393E-03	.2598
11.24	.217	755.47	6.079E-03	.2470	7.970E-03	.3241	9.451E-03	.3841	7.210E-03	.2930
11.67	.226	77[illegible].94	6.817E-03	.2770	9.043E-03	.3675	1.081E-02	.4392	8.138E-03	.3307
12.10	.234	79[illegible].02	7.371E-03	.2996	9.859E-03	.4006	1.186E-02	.4820	8.843E-03	.3593
12.52	.242	797.06	7.682E-03	.3122	1.032E-02	.4195	1.246E-02	.5065	9.240E-03	.3755
12.94	.250	801.79	7.896E-03	.3209	1.064E-02	.4326	1.289E-02	.5237	9.516E-03	.3867
13.36	.258	803.25	7.963E-03	.3236	1.075E-02	.4367	1.302E-02	.5291	9.603E-03	.3902
13.78	.266	803.54	8.070E-03	.3279	1.091E-02	.4432	1.323E-02	.5377	9.740E-03	.3958
14.19	.274	810.53	8.303E-03	.3374	1.126E-02	.4577	1.370E-02	.5569	1.004E-02	.4081
14.60	.282	813.59	8.446E-03	.3432	1.148E-02	.4666	1.400E-02	.5687	1.023E-02	.4157
15.01	.290	812.82	8.411E-03	.3418	1.143E-02	.4643	1.392E-02	.5658	1.018E-02	.4138
15.41	.298	813.35	8.435E-03	.3428	1.146E-02	.4659	1.397E-02	.5678	1.021E-02	.4151
15.81	.306	814.82	8.505E-03	.3456	1.157E-02	.4702	1.412E-02	.5736	1.031E-02	.4188
16.21	.313	814.13	8.473E-03	.3443	1.152E-02	.4682	1.405E-02	.5709	1.026E-02	.4171

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
116	A	TILE INSERT	0.175	.010	-.020	1.694E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.3	1309	39.33	40.01	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.3	.0514	2.289	3817	4.523E-05	7.670E-08	2.251E 06	2.461E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.956	2.450	12.581	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	814.31	8.575E-03	.3485	1.168E-02	.4746	1.426E-02	.5795	1.040E-02	.4225
17.10	.329	814.67	8.735E-03	.3550	1.193E-02	.4847	1.459E-02	.5930	1.061E-02	.4310
17.39	.336	814.85	8.743E-03	.3553	1.194E-02	.4852	1.461E-02	.5937	1.062E-02	.4315
17.77	.344	822.48	8.774E-03	.3565	1.199E-02	.4871	1.467E-02	.5963	1.066E-02	.4331
18.16	.351	821.67	8.783E-03	.3569	1.200E-02	.4877	1.469E-02	.5971	1.067E-02	.4336
18.54	.358	814.55	8.732E-03	.3548	1.192E-02	.4845	1.459E-02	.5927	1.060E-02	.4309
18.92	.356	822.40	8.771E-03	.3564	1.198E-02	.4869	1.467E-02	.5961	1.065E-02	.4329
19.29	.373	822.93	8.796E-03	.3575	1.202E-02	.4885	1.472E-02	.5982	1.069E-02	.4343
19.68	.380	814.53	8.681E-03	.3528	1.184E-02	.4812	1.448E-02	.5884	1.054E-02	.4281
20.03	.387	814.65	8.730E-03	.3550	1.193E-02	.4847	1.459E-02	.5930	1.061E-02	.4311
20.40	.394	822.97	8.894E-03	.3614	1.217E-02	.4948	1.493E-02	.6066	1.082E-02	.4395
20.76	.401	824.45	8.966E-03	.3644	1.229E-02	.4993	1.508E-02	.6127	1.091E-02	.4434
21.12	.408	823.66	9.025E-03	.3667	1.238E-02	.5030	1.520E-02	.6178	1.099E-02	.4465
21.48	.415	823.83	8.937E-03	.3632	1.224E-02	.4974	1.502E-02	.6102	1.087E-02	.4418
21.84	.422	822.42	8.869E-03	.3604	1.213E-02	.4931	1.487E-02	.6044	1.078E-02	.4382
22.19	.429	824.01	8.897E-03	.3616	1.218E-02	.4949	1.493E-02	.6068	1.082E-02	.4397
22.54	.436	824.55	8.972E-03	.3646	1.230E-02	.4997	1.509E-02	.6132	1.092E-02	.4437
22.88	.442	824.22	8.956E-03	.3640	1.227E-02	.4987	1.506E-02	.6119	1.090E-02	.4429
23.23	.449	822.02	8.851E-03	.3597	1.211E-02	.4920	1.483E-02	.6028	1.076E-02	.4372
23.57	.456	823.47	8.921E-03	.3625	1.222E-02	.4964	1.498E-02	.6088	1.085E-02	.4409
23.91	.462	823.37	8.916E-03	.3623	1.221E-02	.4961	1.497E-02	.6084	1.084E-02	.4407
24.24	.469	821.09	8.807E-03	.3579	1.204E-02	.4892	1.474E-02	.5991	1.070E-02	.4348

NASA/RI OH69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
116	8	TILE INSERT	0.175	.010	-.020	1.694E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.3	1309	39.33	40.01	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.3	.0514	2.289	3817	4.523E-05	7.670E-08	2.251E 06	2.461E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVY
13.956	2.450	12.581	1000

X (IN)	X/L	TW. (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	820.46	8.777E-03	.3567	1.199E-02	.4873	1.468E-02	.5965	1.066E-02	.4333
24.90	.481	823.43	8.919E-03	.3625	1.221E-02	.4963	1.498E-02	.6087	1.085E-02	.4409
25.23	.488	819.88	8.750E-03	.3556	1.195E-02	.4856	1.462E-02	.5942	1.063E-02	.4318
25.55	.494	817.57	8.640E-03	.3511	1.178E-02	.4787	1.439E-02	.5849	1.048E-02	.4260
25.87	.500	808.95	7.865E-03	.3196	1.060E-02	.4306	1.282E-02	.5211	9.475E-03	.3850

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OHAO
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
116	8	TILE INSERT	0.175	.010	-.020	1.694E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.3	1309	39.33	40.01	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.3	.0514	2.289	3817	4.523E-05	7.670E-08	2.251E 06	2.461E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
13.956	2.450	12.581	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.075	531.98	532.19	529.84	529.78	529.66	529.04	528.71	528.77	529.57	531.14
2.071	535.92	536.68	532.90	532.22	531.24	529.96	529.37	529.16	531.45	533.51
3.058	538.69	539.66	535.32	534.23	532.54	530.82	529.99	529.63	533.37	535.83
4.064	541.05	542.05	537.36	535.95	533.79	531.62	530.58	530.17	535.21	537.97
5.061	543.14	544.13	539.16	537.51	534.88	532.39	531.15	530.64	537.08	539.98
6.058	545.01	546.01	540.81	538.99	535.95	533.05	531.68	531.09	538.95	542.12
7.054	546.74	547.74	542.37	540.34	536.95	533.73	532.19	531.50	541.00	544.12
8.051	548.38	549.35	543.84	541.67	537.95	534.41	532.69	531.98	542.78	545.94
9.047	549.93	550.87	545.25	542.98	538.93	535.06	533.19	532.42	544.47	547.71
10.044	551.39	552.33	546.60	544.16	539.87	535.71	533.67	532.81	546.34	549.67
11.040	552.79	553.70	547.89	545.37	540.81	536.33	534.14	533.25	548.29	551.57
12.037	554.13	555.04	549.14	546.51	541.75	536.98	534.64	533.67	550.15	553.34
12.563	554.80	555.73	549.79	547.12	542.22	537.33	534.88	533.90	550.91	554.13
13.014	555.38	556.31	550.37	547.62	542.67	537.60	535.12	534.11	551.79	555.11
14.030	556.66	557.56	551.54	548.73	543.55	538.28	535.59	534.53	553.47	556.74
15.027	557.85	558.75	552.68	549.79	544.43	538.90	536.09	534.94	555.33	558.51
16.023	559.01	559.91	553.75	550.84	545.34	539.55	536.60	535.35	557.14	560.40
17.020	560.15	561.04	554.83	551.89	546.19	540.16	537.10	535.80	558.77	562.12
18.016	561.28	562.14	555.91	552.85	547.07	540.84	537.57	536.24	560.40	563.75
19.013	562.35	563.21	556.95	553.84	547.91	541.49	538.10	536.68	562.12	565.42
20.010	563.39	564.28	557.94	554.80	548.76	542.14	538.57	537.10	563.92	567.22

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
116	8	TILE INSERT	0.175	.010	-.020	1.694E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.3	1309	39.33	40.01	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.3	.0514	2.289	3817	4.523E-05	7.670E-08	2.251E 06	2.461E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.956	2.450	12.581	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
116	8	TILE INSERT	0.175	.010	-.020	1.694E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	493.3	1309	39.33	40.01	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.3	.0514	2.289	3817.	4.523E-05	7.670E-08	2.251E 06	2.461E-02	72

TOTAL TIME SECONDS	INJECT. TIME SECONDS	DELT. SECONDS	MONITOR. SENSITIVITY.
13.956	2.450	12.5811	1000.

PHOTOGRAPH. TIME HISTORY.

TIME (SEC).	PHOTOGRAPH. NUMBER.
3.613.	1.
7.397.	2.
13.102	3.

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
117	8	TILE INSERT	0.175	.010	-.020	1.490E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.7	1296	29.60	29.99	30.00	.40	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0445	1.985	3798	3.560E-05	7.596E-08	1.980E 06	2.287E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
36.896	2.446	35.523	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
10.33	.200	623.07	1.135E-03	.0496	1.406E-03	.0615	1.596E-03	.0698	1.366E-03	.0597
10.71	.207	635.46	1.336E-03	.0584	1.663E-03	.0727	1.895E-03	.0828	1.614E-03	.0706
11.10	.214	639.49	1.383E-03	.0605	1.723E-03	.0753	1.965E-03	.0859	1.672E-03	.0731
11.48	.222	643.75	1.450E-03	.0634	1.809E-03	.0791	2.066E-03	.0903	1.756E-03	.0767
11.85	.229	649.36	1.540E-03	.0673	1.926E-03	.0842	2.202E-03	.0963	1.868E-03	.0817
12.23	.236	653.94	1.615E-03	.0706	2.023E-03	.0884	2.316E-03	.1013	1.962E-03	.0858
12.60	.244	657.35	1.671E-03	.0731	2.097E-03	.0917	2.403E-03	.1051	2.033E-03	.0889
12.98	.251	662.21	1.755E-03	.0767	2.207E-03	.0965	2.532E-03	.1107	2.138E-03	.0935
13.35	.258	666.53	1.868E-03	.0817	2.354E-03	.1029	2.707E-03	.1183	2.281E-03	.0997
13.72	.265	673.94	1.967E-03	.0860	2.485E-03	.1087	2.862E-03	.1251	2.407E-03	.1052
14.08	.272	680.11	2.082E-03	.0910	2.637E-03	.1153	3.042E-03	.1330	2.553E-03	.1116
14.45	.279	687.65	2.225E-03	.0973	2.827E-03	.1236	3.270E-03	.1430	2.736E-03	.1196
14.81	.286	695.81	2.383E-03	.1042	3.040E-03	.1329	3.525E-03	.1541	2.939E-03	.1285
15.17	.293	701.30	2.492E-03	.1089	3.186E-03	.1393	3.702E-03	.1618	3.079E-03	.1346
15.53	.300	707.23	2.611E-03	.1141	3.348E-03	.1464	3.898E-03	.1704	3.234E-03	.1414
15.89	.307	713.68	2.743E-03	.1199	3.528E-03	.1542	4.117E-03	.1800	3.407E-03	.1490
16.25	.314	719.31	2.839E-03	.1241	3.660E-03	.1600	4.279E-03	.1871	3.533E-03	.1545
16.60	.321	723.47	2.948E-03	.1289	3.810E-03	.1666	4.463E-03	.1951	3.677E-03	.1608
16.96	.328	730.98	3.109E-03	.1359	4.034E-03	.1764	4.740E-03	.2072	3.891E-03	.1701
17.31	.335	737.28	3.247E-03	.1420	4.228E-03	.1848	4.980E-03	.2177	4.075E-03	.1782
17.66	.341	742.90	3.373E-03	.1474	4.405E-03	.1926	5.200E-03	.2274	4.244E-03	.1855

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
117	8	TILE INSERT	0.175	.010	-.020	1.490E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.7	1296	29.60	29.99	30.00	.40	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0445	1.985	3798	3.960E-05	7.596E-08	1.980E 06	2.287E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
36.856	2.446	35.523	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
18.81	.348	748.14	3.492E-03	.1527	4.574E-03	.2000	5.412E-03	.2366	4.405E-03	.1926
19.35	.355	751.90	3.578E-03	.1564	4.697E-03	.2054	5.568E-03	.2434	4.522E-03	.1977
19.70	.361	754.19	3.632E-03	.1588	4.774E-03	.2087	5.664E-03	.2476	4.595E-03	.2009
19.74	.368	756.93	3.744E-03	.1637	4.934E-03	.2157	5.867E-03	.2565	4.747E-03	.2075
19.38	.375	764.53	3.876E-03	.1695	5.129E-03	.2242	6.115E-03	.2673	4.932E-03	.2156
19.72	.381	767.36	3.947E-03	.1726	5.229E-03	.2286	6.243E-03	.2729	5.026E-03	.2197
20.06	.388	769.99	3.987E-03	.1743	5.287E-03	.2311	6.317E-03	.2762	5.081E-03	.2222
20.39	.394	773.99	4.111E-03	.1797	5.469E-03	.2391	6.551E-03	.2864	5.254E-03	.2297
20.73	.401	776.45	4.224E-03	.1847	5.635E-03	.2464	6.766E-03	.2958	5.411E-03	.2366
21.06	.407	782.63	4.332E-03	.1894	5.795E-03	.2533	6.972E-03	.3048	5.562E-03	.2432
21.39	.413	785.92	4.444E-03	.1943	5.962E-03	.2607	7.190E-03	.3143	5.720E-03	.2501
21.72	.420	791.53	4.540E-03	.1985	6.105E-03	.2669	7.377E-03	.3225	5.855E-03	.2560
22.05	.426	791.41	4.564E-03	.1995	6.141E-03	.2685	7.424E-03	.3246	5.889E-03	.2575
22.37	.432	793.81	4.629E-03	.2024	6.239E-03	.2728	7.552E-03	.3302	5.981E-03	.2615
22.69	.439	793.07	4.746E-03	.2075	6.415E-03	.2805	7.785E-03	.3404	6.147E-03	.2687
23.02	.445	801.82	4.850E-03	.2121	6.575E-03	.2874	7.996E-03	.3496	6.297E-03	.2753
23.34	.451	802.24	4.862E-03	.2126	6.593E-03	.2882	8.020E-03	.3506	6.314E-03	.2760
23.65	.457	804.36	4.922E-03	.2152	6.684E-03	.2922	8.142E-03	.3559	6.400E-03	.2798
23.97	.463	807.17	5.003E-03	.2187	6.808E-03	.2976	8.306E-03	.3631	6.516E-03	.2849
24.29	.469	808.59	5.044E-03	.2205	6.871E-03	.3004	8.390E-03	.3668	6.575E-03	.2875
24.60	.475	809.96	5.055E-03	.2210	6.888E-03	.3011	8.413E-03	.3678	6.591E-03	.2882
24.91	.482	811.71	5.134E-03	.2244	7.010E-03	.3065	8.577E-03	.3750	6.706E-03	.2932

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
117	8	TILE INSERT	0.175	.010	-.020	1.490E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.7	1296	29.60	29.99	30.00	.40	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0445	1.985	3798	3.960E-05	7.596E-08	1.980E 06	2.287E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
36.856	2.446	35.523	1000

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
25.22	.487	812.79	5.165E-03	.2258	7.058E-03	.3086	8.642E-03	.3778	6.751E-03	.2952
25.53	.493	811.86	5.138E-03	.2246	7.016E-03	.3068	8.586E-03	.3754	6.712E-03	.2935
25.83	.499	810.80	5.108E-03	.2233	6.970E-03	.3047	8.523E-03	.3726	6.668E-03	.2915
26.14	.505	775.73	4.156E-03	.1817	5.534E-03	.2420	6.635E-03	.2901	5.316E-03	.2324

NASA/RI OHGO
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
117	8	TILE INSERT	0.175	.010	-.020	1.490E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.7	1296	29.60	29.99	30.00	.40	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	RREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0445	1.985	3798	3.560E-05	7.596E-08	1.980E 06	2.287E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
36.856	2.446	35.523	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.073	533.90	533.82	531.33	531.12	530.94	530.26	529.84	529.81	528.58	529.16
2.069	537.63	537.81	533.93	533.08	532.04	530.97	530.35	530.11	529.07	529.57
3.066	540.31	540.59	536.03	534.70	533.08	531.56	530.79	530.44	529.66	530.28
4.062	542.55	542.84	537.86	536.21	534.02	532.16	531.21	530.79	530.10	530.78
5.059	544.52	544.75	539.52	537.60	535.15	532.69	531.62	531.12	530.46	531.18
6.056	546.27	546.51	541.02	538.90	535.80	533.25	532.01	531.44	530.91	531.63
7.052	547.91	548.15	542.46	540.13	536.68	533.79	532.39	531.77	531.45	532.17
8.049	549.44	549.64	543.78	541.28	537.51	534.29	532.78	532.07	531.94	532.70
9.045	550.84	551.07	545.07	542.40	538.37	534.79	533.16	532.39	532.43	533.28
10.042	552.18	552.41	546.30	543.55	539.19	535.35	533.52	532.75	532.88	533.64
11.038	553.49	553.70	547.50	544.63	539.99	535.86	533.90	533.08	533.33	534.22
12.035	554.71	554.93	548.59	545.63	540.78	536.36	534.26	533.34	533.78	534.63
13.032	555.91	556.08	549.70	546.63	541.58	536.89	534.61	533.64	534.40	535.12
14.028	557.01	557.19	550.75	547.62	542.37	537.39	535.03	533.99	534.71	535.56
15.025	558.12	558.26	551.80	548.56	543.14	537.95	535.41	534.32	535.12	536.01
16.021	559.16	559.33	552.76	549.52	543.90	538.48	535.80	534.61	535.56	536.37
17.018	560.17	560.35	553.75	550.40	544.63	539.02	536.18	534.94	536.10	536.95
18.014	561.19	561.33	554.69	551.30	545.40	539.58	536.60	535.30	536.64	537.48
19.011	562.14	562.32	555.62	552.18	546.13	540.11	536.98	535.65	536.95	537.84
20.008	563.10	563.24	556.52	553.00	546.83	540.64	537.36	535.97	537.30	538.20
21.004	564.02	564.17	557.36	553.84	547.56	541.17	537.78	536.30	537.84	538.64

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
117	8	TILE INSERT	0.175	.010	-.020	1.450E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.7	1296	29.60	29.99	30.00	.40	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0445	1.985	3798	3.560E-05	7.596E-08	1.980E 06	2.287E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
36.856	2.446	35.523	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.001	564.92	565.00	558.20	554.66	548.27	541.69	538.19	536.62	538.38	539.22
22.997	565.81	565.90	559.07	555.47	549.00	542.19	538.63	537.01	538.78	539.58
23.994	566.68	566.74	559.91	556.23	549.67	542.75	539.04	537.36	539.09	539.94
24.990	567.57	567.57	560.70	557.01	550.34	543.31	539.46	537.72	539.45	540.34
25.987	568.41	568.41	561.51	557.77	551.01	543.84	539.87	538.07	539.94	540.87
26.984	569.27	569.18	562.29	558.52	551.69	544.37	540.31	538.43	540.47	541.36
27.980	570.07	569.99	563.04	559.28	552.36	544.90	540.72	538.81	540.78	541.67
28.977	570.88	570.74	563.79	559.97	553.00	545.45	541.17	539.19	541.09	542.07
29.973	571.71	571.48	564.51	560.70	553.64	545.98	541.58	539.55	541.54	542.52
30.970	572.49	572.26	565.24	561.42	554.31	546.48	542.02	539.90	542.12	543.05
31.966	573.26	573.03	565.96	562.09	554.95	547.01	542.46	540.31	542.52	543.41
32.963	574.04	573.72	566.68	562.78	555.59	547.56	542.90	540.69	542.83	543.72
33.960	574.78	574.44	567.40	563.47	556.20	548.09	543.37	541.11	543.14	544.12
34.956	575.50	575.12	568.09	564.14	556.81	548.59	543.78	541.43	543.67	544.52
35.535	575.87	575.52	568.43	564.51	557.16	548.85	544.02	541.64	543.85	544.83
35.953	576.21	575.84	568.72	564.80	557.42	549.11	544.22	541.81	544.07	545.10
36.949	576.90	576.50	569.38	565.47	558.03	549.64	544.66	542.25	544.47	545.36
37.546	577.58	577.18	570.05	566.10	558.61	550.14	545.10	542.67	544.78	545.63
38.942	578.24	577.84	570.71	566.74	559.22	550.66	545.54	543.05	545.14	546.03
39.939	578.95	578.47	571.37	567.37	559.80	551.16	546.01	543.40	545.63	546.61
40.936	579.61	579.15	572.00	568.00	560.41	551.68	546.45	543.84	546.03	547.09
41.932	580.27	579.78	572.69	568.61	560.99	552.21	546.89	544.25	546.29	547.32

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
117	8	TILE INSERT	0.175	.010	-.020	1.490E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.7	1296	29.60	29.99	30.00	.40	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0445	1.985	3798	3.560E-05	7.596E-08	1.980E 06	2.287E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
36.856	2.446	35.523	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
43.929	580.92	580.44	573.29	569.24	561.56	552.73	547.36	544.66	546.65	547.71
43.925	581.55	581.06	573.89	569.76	562.75	553.20	547.77	545.04	547.05	548.02

C-

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
117	8	TILE INSERT	0.175	.010	-.020	1.490E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.7	1296	29.60	29.99	30.00	.40	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0445	1.985	3798	3.560E-05	7.596E-08	1.980E 06	2.287E-02	70

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
36.896	2.446	35.523	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
11.038	1
18.014	2
36.350	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
118	8	TILE INSERT	0.175	.010	-.020	1.484E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.3	1298	39.44	40.03	30.00	-9.44	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0445	1.983	3801	3.549E-05	7.609E-08	1.973E 06	2.287E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.937	2.455	15.559	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
8.15	.158	571.34	6.276E-04	.0274	7.641E-04	.0334	8.573E-04	.0375	7.114E-04	.0311
8.60	.166	584.23	8.644E-04	.0378	1.056E-03	.0462	1.189E-03	.0520	9.820E-04	.0429
9.05	.175	599.93	1.170E-03	.0512	1.437E-03	.0628	1.622E-03	.0709	1.333E-03	.0583
9.49	.183	687.75	3.289E-03	.1438	4.178E-03	.1827	4.830E-03	.2112	3.825E-03	.1673
9.93	.192	720.39	4.271E-03	.1868	5.509E-03	.2409	6.442E-03	.2817	5.013E-03	.2192
10.37	.200	698.60	3.606E-03	.1577	4.602E-03	.2012	5.340E-03	.2335	4.206E-03	.1839
10.81	.209	716.55	4.151E-03	.1815	5.344E-03	.2337	6.240E-03	.2729	4.867E-03	.2128
11.24	.217	734.13	4.713E-03	.2061	6.122E-03	.2677	7.198E-03	.3147	5.556E-03	.2429
11.67	.226	751.82	5.311E-03	.2322	6.966E-03	.3046	8.251E-03	.3608	6.296E-03	.2753
12.10	.234	770.09	5.962E-03	.2607	7.905E-03	.3457	9.444E-03	.4129	7.114E-03	.3111
12.52	.242	779.34	6.314E-03	.2761	8.421E-03	.3682	1.011E-02	.4419	7.560E-03	.3306
12.94	.250	788.42	6.669E-03	.2916	8.947E-03	.3912	1.079E-02	.4718	8.013E-03	.3504
13.36	.258	794.56	6.916E-03	.3024	9.318E-03	.4074	1.128E-02	.4930	8.331E-03	.3643
13.78	.266	796.96	7.015E-03	.3067	9.466E-03	.4139	1.147E-02	.5016	8.458E-03	.3698
14.19	.274	801.75	7.214E-03	.3155	9.769E-03	.4271	1.187E-02	.5190	8.716E-03	.3811
14.60	.282	806.83	7.431E-03	.3249	1.010E-02	.4416	1.231E-02	.5382	8.997E-03	.3934
15.01	.290	804.65	7.510E-03	.3284	1.022E-02	.4469	1.247E-02	.5452	9.100E-03	.3979
15.41	.298	809.38	7.495E-03	.3277	1.020E-02	.4459	1.244E-02	.5439	9.080E-03	.3970
15.81	.306	809.60	7.551E-03	.3302	1.028E-02	.4497	1.255E-02	.5490	9.154E-03	.4003
16.21	.313	810.15	7.575E-03	.3312	1.032E-02	.4513	1.260E-02	.5511	9.185E-03	.4016
16.61	.321	809.67	7.555E-03	.3303	1.029E-02	.4499	1.256E-02	.5493	9.158E-03	.4005

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
118	8	TILE INSERT	0.175	.010	-.020	1.484E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.3	1298	39.44	40.03	30.00	-9.44	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0445	1.983	3801	3.549E-05	7.609E-08	1.973E 06	2.287E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.937	2.455	15.559	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
17.00	.329	813.79	7.732E-03	.3381	1.056E-02	.4619	1.293E-02	.5653	9.390E-03	.4106
17.39	.336	814.71	7.772E-03	.3398	1.062E-02	.4646	1.301E-02	.5690	9.443E-03	.4129
17.77	.344	814.66	7.770E-03	.3397	1.062E-02	.4644	1.301E-02	.5688	9.440E-03	.4128
18.16	.351	815.96	7.824E-03	.3421	1.071E-02	.4681	1.312E-02	.5738	9.511E-03	.4159
18.54	.358	815.57	7.810E-03	.3415	1.068E-02	.4671	1.309E-02	.5724	9.492E-03	.4150
18.92	.366	815.22	7.795E-03	.3408	1.066E-02	.4661	1.306E-02	.5711	9.472E-03	.4142
19.29	.373	816.12	7.834E-03	.3426	1.072E-02	.4688	1.314E-02	.5747	9.524E-03	.4164
19.66	.380	815.54	7.809E-03	.3415	1.068E-02	.4671	1.309E-02	.5724	9.491E-03	.4150
20.03	.387	813.73	7.731E-03	.3380	1.056E-02	.4618	1.293E-02	.5652	9.388E-03	.4105
20.40	.394	815.93	7.870E-03	.3441	1.078E-02	.4712	1.322E-02	.5779	9.571E-03	.4185
20.76	.401	819.61	7.987E-03	.3493	1.096E-02	.4792	1.347E-02	.5888	9.725E-03	.4252
21.12	.408	819.85	7.998E-03	.3497	1.098E-02	.4800	1.349E-02	.5898	9.739E-03	.4259
21.48	.415	821.05	8.051E-03	.3520	1.106E-02	.4836	1.360E-02	.5948	9.809E-03	.4289
21.84	.422	818.76	7.950E-03	.3476	1.090E-02	.4767	1.339E-02	.5854	9.677E-03	.4231
22.19	.429	817.67	7.903E-03	.3456	1.083E-02	.4735	1.329E-02	.5810	9.614E-03	.4204
22.54	.436	818.77	7.951E-03	.3477	1.090E-02	.4768	1.339E-02	.5854	9.677E-03	.4232
22.88	.442	820.95	8.047E-03	.3519	1.105E-02	.4833	1.359E-02	.5944	9.804E-03	.4287
23.23	.449	819.55	7.986E-03	.3492	1.096E-02	.4791	1.346E-02	.5886	9.723E-03	.4251
23.57	.456	819.36	7.978E-03	.3489	1.088E-02	.4756	1.335E-02	.5838	9.655E-03	.4222
23.91	.462	819.13	7.968E-03	.3484	1.093E-02	.4779	1.342E-02	.5870	9.699E-03	.4241
24.24	.469	818.54	7.942E-03	.3473	1.089E-02	.4761	1.337E-02	.5846	9.665E-03	.4226
24.57	.475	816.34	7.846E-03	.3431	1.074E-02	.4696	1.317E-02	.5757	9.539E-03	.4171

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
118	8	TILE INSERT	0.175	.010	-.020	1.484E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.3	1298	39.44	40.03	30.00	-9.44	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0445	1.983	3801	3.949E-05	7.609E-08	1.973E 06	2.287E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.937	2.455	15.559	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.481	817.95	7.916E-03	.3462	1.085E-02	.4744	1.331E-02	.5822	9.632E-03	.4212
25.23	.488	817.71	7.906E-03	.3457	1.083E-02	.4737	1.329E-02	.5812	9.618E-03	.4206
25.55	.494	814.95	7.786E-03	.3404	1.065E-02	.4655	1.304E-02	.5702	9.460E-03	.4137
25.87	.500	811.67	7.644E-03	.3343	1.043E-02	.4559	1.274E-02	.5573	9.275E-03	.4056

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75

NASA/RI OHIO
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
118	8	TILE INSERT	0.175	.010	-.020	1.484E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.3	1298	39.44	40.03	30.00	-9.44	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0445	1.983	3801	3.549E-05	7.609E-08	1.973E 06	2.287E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.937	2.455	15.559	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.077	534.85	534.79	532.63	532.51	532.45	531.74	531.44	531.50	535.03	536.41
2.073	538.43	538.90	535.44	534.79	533.85	532.66	532.10	531.89	536.41	538.15
3.070	541.02	541.64	537.63	536.62	535.06	533.46	532.66	532.33	538.06	539.94
4.066	543.19	543.84	539.49	538.25	536.18	534.20	533.22	532.78	539.76	541.76
5.063	545.13	545.72	541.17	539.66	537.19	534.85	533.73	533.25	541.23	543.36
6.060	546.86	547.45	542.67	541.02	538.19	535.50	534.20	533.67	542.65	544.92
7.056	548.50	549.03	544.13	542.28	539.10	536.12	534.70	534.08	544.38	546.65
8.053	550.02	550.52	545.45	543.49	540.02	536.71	535.15	534.47	545.98	548.34
9.049	551.45	551.95	546.74	544.63	540.90	537.33	535.62	534.88	547.58	549.98
10.046	552.82	553.26	548.00	545.75	541.78	537.92	536.06	535.30	549.04	551.44
11.042	554.13	554.51	549.17	546.86	542.64	538.51	536.51	535.68	550.51	552.94
12.039	555.36	555.76	550.34	547.91	543.49	539.10	536.95	536.03	552.06	554.44
13.036	556.58	556.95	551.45	548.94	544.34	539.69	537.39	536.42	553.74	556.12
14.032	557.71	558.06	552.50	549.93	545.16	540.28	537.84	536.86	555.11	557.49
15.029	558.84	559.19	553.55	550.93	545.98	540.87	538.28	537.27	556.56	558.95
15.541	559.39	559.74	554.10	551.42	546.39	541.19	538.51	537.42	557.32	559.79
16.025	559.91	560.26	554.57	551.89	546.80	541.46	538.72	537.63	557.98	560.40
17.022	560.96	561.28	555.56	552.82	547.59	542.05	539.22	538.01	559.56	561.94
18.018	562.00	562.32	556.55	553.75	548.38	542.64	539.66	538.43	561.06	563.48
19.015	563.01	563.30	557.51	554.63	549.17	543.25	540.11	538.84	562.47	564.98
20.012	563.99	564.25	558.43	555.50	549.93	543.84	540.58	539.22	563.75	566.17

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
118	8	TILE INSERT	0.175	.010	-.020	1.484E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.3	1298	39.44	40.03	30.00	-9.44	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0445	1.983	3801	3.949E-05	7.609E-08	1.973E 06	2.287E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.937	2.455	15.559	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.008	564.92	565.18	559.33	556.61	550.37	544.43	541.05	539.63	565.24	567.75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
118	8	TILE INSERT	0.175	.010	-.020	1.484E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	427.3	1298	39.44	40.03	30.00	-9.44	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0445	1.983	3801	3.949E-05	7.609E-08	1.973E 06	2.287E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
16.937	2.455	15.559	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.682	1
8.245	2
15.541	3

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/04/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
119	8	TILE INSERT	0.175	.010	-.020	1.324E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.9	1294	39.50	40.02	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0397	1.764	3795	3.524E-05	7.602E-08	1.759E 06	2.156E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.269	2.446	7.916	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	569.23	8.312E-04	.0386	1.012E-03	.0469	1.135E-03	.0527	9.421E-04	.0437
8.15	.158	579.69	1.098E-03	.0509	1.341E-03	.0622	1.508E-03	.0699	1.247E-03	.0578
8.60	.166	592.59	1.443E-03	.0670	1.770E-03	.0821	1.995E-03	.0926	1.643E-03	.0762
9.05	.175	642.80	2.965E-03	.1375	3.700E-03	.1716	4.224E-03	.1959	3.411E-03	.1583
9.49	.183	728.75	6.400E-03	.2969	8.299E-03	.3850	9.746E-03	.4521	7.537E-03	.3496
9.93	.192	678.61	4.272E-03	.1982	5.410E-03	.2510	6.240E-03	.2895	4.959E-03	.2301
10.37	.200	666.42	3.801E-03	.1763	4.788E-03	.2221	5.503E-03	.2553	4.398E-03	.2040
10.81	.209	672.51	4.034E-03	.1872	5.095E-03	.2364	5.867E-03	.2722	4.676E-03	.2169
11.24	.217	680.32	4.340E-03	.2013	5.500E-03	.2551	6.348E-03	.2945	5.041E-03	.2338
11.67	.226	695.84	4.970E-03	.2305	6.341E-03	.2942	7.357E-03	.3413	5.796E-03	.2689
12.10	.234	709.23	5.536E-03	.2568	7.109E-03	.3298	8.286E-03	.3844	6.481E-03	.3007
12.52	.242	718.09	5.922E-03	.2747	7.639E-03	.3544	8.933E-03	.4144	6.952E-03	.3225
12.94	.250	725.01	6.232E-03	.2891	8.067E-03	.3742	9.459E-03	.4388	7.331E-03	.3401
13.36	.258	729.60	6.441E-03	.2988	8.357E-03	.3877	9.817E-03	.4554	7.587E-03	.3520
13.78	.266	733.12	6.603E-03	.3063	8.583E-03	.3982	1.010E-02	.4684	7.787E-03	.3612
14.19	.274	734.50	6.854E-03	.3180	8.935E-03	.4145	1.054E-02	.4887	8.097E-03	.3756
14.60	.282	742.34	7.036E-03	.3264	9.192E-03	.4264	1.086E-02	.5036	8.323E-03	.3861
15.01	.290	742.75	7.056E-03	.3273	9.220E-03	.4277	1.089E-02	.5052	8.347E-03	.3872
15.41	.298	743.09	7.072E-03	.3281	9.243E-03	.4288	1.092E-02	.5065	8.367E-03	.3882
15.81	.306	745.02	7.165E-03	.3324	9.375E-03	.4349	1.108E-02	.5142	8.483E-03	.3935
16.21	.313	745.02	7.165E-03	.3324	9.375E-03	.4349	1.108E-02	.5142	8.483E-03	.3935

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
119	8	TILE INSERT	0.175	.010	-.020	1.324E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.9	1294	39.50	40.02	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0397	1.764	3795	3.524E-05	7.602E-08	1.759E 06	2.156E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
9.289	2.446	7.816	500.

X, (IN)	X/L	TW, (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(0.9TO)/HREF	H(0.85TO)	H(0.85TO)/HREF	H(0.934TO)	H(0.934TO)/HREF
16.611	.321	746.62	7.233E-03	.3355	9.471E-03	.4394	1.120E-02	.5198	8.567E-03	.3974
17.00	.329	750.29	7.421E-03	.3443	9.739E-03	.4518	1.164E-02	.5354	8.802E-03	.4083
17.39	.336	749.99	7.407E-03	.3436	9.718E-03	.4508	1.162E-02	.5342	8.784E-03	.4075
17.77	.344	751.06	7.460E-03	.3460	9.794E-03	.4543	1.161E-02	.5386	8.849E-03	.4105
18.16	.351	751.27	7.470E-03	.3465	9.809E-03	.4550	1.163E-02	.5395	8.863E-03	.4111
18.54	.358	750.51	7.433E-03	.3448	9.756E-03	.4526	1.156E-02	.5364	8.816E-03	.4090
18.92	.366	750.39	7.425E-03	.3445	9.745E-03	.4521	1.155E-02	.5357	8.807E-03	.4086
19.29	.373	750.77	7.446E-03	.3454	9.774E-03	.4534	1.159E-02	.5375	8.833E-03	.4098
19.66	.380	748.61	7.341E-03	.3406	9.625E-03	.4465	1.140E-02	.5287	8.702E-03	.4037
20.03	.387	749.91	7.356E-03	.3413	9.646E-03	.4475	1.142E-02	.5300	8.721E-03	.4046
20.40	.394	751.90	7.503E-03	.3481	9.855E-03	.4572	1.169E-02	.5422	8.904E-03	.4130
20.76	.401	753.36	7.575E-03	.3514	9.958E-03	.4620	1.182E-02	.5482	8.994E-03	.4172
21.12	.409	754.02	7.608E-03	.3529	1.001E-02	.4642	1.188E-02	.5510	9.035E-03	.4191
21.48	.415	754.45	7.630E-03	.3539	1.004E-02	.4656	1.192E-02	.5528	9.062E-03	.4204
21.84	.422	751.93	7.505E-03	.3482	9.859E-03	.4574	1.169E-02	.5424	8.907E-03	.4132
22.19	.429	751.64	7.492E-03	.3476	9.840E-03	.4565	1.167E-02	.5410	8.890E-03	.4124
22.54	.436	753.68	7.592E-03	.3522	9.983E-03	.4631	1.185E-02	.5497	9.015E-03	.4182
22.88	.442	754.65	7.641E-03	.3545	1.005E-02	.4663	1.194E-02	.5537	9.076E-03	.4210
23.23	.449	752.68	7.544E-03	.3500	9.913E-03	.4599	1.176E-02	.5458	8.954E-03	.4154
23.57	.456	753.32	7.576E-03	.3514	9.959E-03	.4620	1.182E-02	.5482	8.994E-03	.4172
23.91	.462	752.78	7.549E-03	.3502	9.921E-03	.4602	1.177E-02	.5460	8.961E-03	.4157
24.24	.469	753.37	7.431E-03	.3447	9.752E-03	.4524	1.158E-02	.5362	8.814E-03	.4089

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
119	8	TILE INSERT	0.175	.010	-.020	1.324E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.9	1294	39.50	40.02	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	G - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0397	1.764	3795	3.524E-05	7.602E-06	1.759E 06	2.156E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.289	2.446	7.916	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	749.56	7.392E-03	.3429	9.696E-03	.4498	1.149E-02	.5329	8.764E-03	.4066
24.90	.481	753.25	7.573E-03	.3513	9.955E-03	.4618	1.181E-02	.5480	8.991E-03	.4171
25.23	.488	750.13	7.420E-03	.3442	9.736E-03	.4517	1.154E-02	.5352	8.800E-03	.4082
25.55	.494	748.19	7.326E-03	.3398	9.602E-03	.4454	1.137E-02	.5274	8.682E-03	.4028
25.87	.500	734.94	6.696E-03	.3106	8.713E-03	.4042	1.026E-02	.4758	7.901E-03	.3665

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
119	8	TILE INSERT	0.175	.010	-.020	1.324E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.9	1294	39.50	40.02	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0397	1.764	3795	3.524E-05	7.602E-08	1.759E 06	2.156E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.289	2.446	7.916	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.073	532.45	532.45	530.41	530.38	530.17	529.69	529.43	529.49	541.18	542.34
2.069	535.83	536.33	533.08	532.51	531.59	530.55	530.02	529.87	542.16	543.54
3.066	538.25	538.90	535.12	534.23	532.75	531.27	530.58	530.26	543.58	545.14
4.062	540.31	540.93	536.86	535.74	533.79	531.95	531.09	530.70	545.01	546.74
5.059	542.11	542.72	538.43	537.07	534.79	532.60	531.59	531.15	546.38	548.11
6.056	543.78	544.37	539.87	538.34	535.69	533.22	532.04	531.53	547.58	549.49
7.052	545.28	545.86	541.19	539.55	536.54	533.79	532.48	531.92	549.04	550.95
7.848	546.51	547.07	542.28	540.49	537.30	534.29	532.87	532.25	550.20	552.19
8.049	546.74	547.27	542.46	540.60	537.42	534.35	532.90	532.28	550.51	552.41
9.045	548.06	548.59	543.69	541.75	538.28	534.94	533.34	532.69	551.75	553.78
10.042	549.35	549.82	544.87	542.81	539.07	535.47	533.76	533.05	552.99	555.02
11.038	550.58	551.01	545.98	543.81	539.87	536.03	534.17	533.40	554.22	556.39
12.035	551.71	552.15	547.04	544.72	541.28	536.54	534.56	533.76	555.77	557.80
13.032	552.88	553.32	548.12	545.81	541.49	537.16	535.03	534.17	557.09	559.17

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/04/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OHAO
V41d-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
119	8	TILE INSERT	0.175	.010	-.020	1.324E 06	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	377.9	1294	39.50	40.02	30.00	-9.50	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0397	1.764	3795	3.524E-05	7.602E-08	1.759E 06	2.156E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.269	2.446	7.916	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
1.841	1
5.013	2
9.282	3

NASA/RI OHAO
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/05/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
120	B	TILE INSERT	0.175	.010	-.020	1.124E 06	2.490E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	317.9	1289	39.53	39.97	30.00	-9.53	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0336	1.492	3787	2.994E-05	7.589E-08	1.494E 06	1.981E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
33.334	2.450	31.958	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
8.15	.158	574.14	4.682E-04	.0236	5.698E-04	.0288	6.392E-04	.0323	5.307E-04	.0268
8.60	.166	588.39	6.557E-04	.0331	8.008E-04	.0404	9.004E-04	.0455	7.448E-04	.0376
9.05	.175	633.22	1.320E-03	.0666	1.631E-03	.0823	1.850E-03	.0934	1.510E-03	.0762
9.49	.183	727.35	3.172E-03	.1601	4.055E-03	.2047	4.714E-03	.2379	3.704E-03	.1870
9.93	.192	670.09	1.967E-03	.0993	2.460E-03	.1242	2.814E-03	.1420	2.267E-03	.1144
10.37	.200	676.00	2.082E-03	.1051	2.610E-03	.1317	2.989E-03	.1509	2.403E-03	.1213
10.81	.209	688.63	2.335E-03	.1179	2.940E-03	.1484	3.379E-03	.1705	2.702E-03	.1364
11.24	.217	702.05	2.615E-03	.1320	3.308E-03	.1670	3.816E-03	.1926	3.034E-03	.1532
11.67	.226	718.92	2.982E-03	.1505	3.798E-03	.1917	4.404E-03	.2223	3.474E-03	.1754
12.10	.234	736.25	3.378E-03	.1705	4.336E-03	.2189	5.055E-03	.2552	3.954E-03	.1996
12.52	.242	751.18	3.738E-03	.1887	4.830E-03	.2438	5.662E-03	.2858	4.393E-03	.2217
12.94	.250	760.97	3.983E-03	.2011	5.172E-03	.2611	6.065E-03	.3072	4.695E-03	.2370
13.36	.258	772.58	4.286E-03	.2163	5.598E-03	.2825	6.617E-03	.3340	5.069E-03	.2559
13.78	.266	782.38	4.552E-03	.2298	5.977E-03	.3017	7.096E-03	.3582	5.401E-03	.2726
14.19	.274	793.97	4.880E-03	.2463	6.449E-03	.3255	7.699E-03	.3886	5.812E-03	.2934
14.60	.282	804.12	5.182E-03	.2616	6.890E-03	.3478	8.266E-03	.4172	6.194E-03	.3126
15.01	.290	807.97	5.300E-03	.2675	7.064E-03	.3565	8.491E-03	.4286	6.344E-03	.3202
15.41	.298	811.72	5.416E-03	.2734	7.235E-03	.3652	8.715E-03	.4399	6.491E-03	.3276
15.81	.306	816.78	5.572E-03	.2813	7.468E-03	.3770	9.021E-03	.4553	6.691E-03	.3377
16.21	.313	819.45	5.656E-03	.2855	7.594E-03	.3833	9.186E-03	.4637	6.799E-03	.3432
16.61	.321	822.90	5.765E-03	.2910	7.757E-03	.3916	9.403E-03	.4746	6.939E-03	.3502

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
120	8	TILE INSERT	0.175	.010	-.020	1.124E 06	2.490E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	317.9	1289	39.53	39.97	30.00	-9.53	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0336	1.492	3787	2.594E-05	7.589E-08	1.494E 06	1.981E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
33.334	2.450	31.958	1000

X (IN)	X/L	TW (DEG R)	HI(T)	HI(T)/HREF	HI(0.9T)	HI(0.9T)/HREF	HI(.85T)	HI(.85T)/HREF	HI(.934T)	HI(.934T)/HREF
17.00	.329	827.46	5.910E-03	.2983	7.978E-03	.4027	9.697E-03	.4895	7.127E-03	.3597
17.39	.336	828.01	5.928E-03	.2992	8.005E-03	.4041	9.733E-03	.4913	7.150E-03	.3609
17.77	.344	829.07	5.962E-03	.3010	8.057E-03	.4067	9.803E-03	.4948	7.194E-03	.3631
18.16	.351	829.18	5.966E-03	.3011	8.063E-03	.4070	9.810E-03	.4952	7.199E-03	.3634
18.54	.358	828.95	5.958E-03	.3008	8.051E-03	.4064	9.795E-03	.4944	7.189E-03	.3629
18.92	.366	829.45	5.975E-03	.3016	8.076E-03	.4077	9.828E-03	.4961	7.210E-03	.3640
19.29	.373	831.18	6.031E-03	.3044	8.162E-03	.4120	9.943E-03	.5019	7.283E-03	.3676
19.66	.380	829.41	5.974E-03	.3015	8.074E-03	.4076	9.826E-03	.4960	7.209E-03	.3639
20.03	.387	828.89	5.957E-03	.3007	8.049E-03	.4063	9.791E-03	.4942	7.187E-03	.3628
20.40	.394	832.01	6.058E-03	.3058	8.203E-03	.4141	9.999E-03	.5047	7.318E-03	.3694
20.76	.401	834.38	6.135E-03	.3097	8.322E-03	.4201	1.016E-02	.5128	7.419E-03	.3745
21.12	.408	835.09	6.158E-03	.3109	8.358E-03	.4219	1.021E-02	.5152	7.449E-03	.3760
21.48	.415	835.76	6.180E-03	.3120	8.392E-03	.4236	1.025E-02	.5175	7.478E-03	.3775
21.84	.422	832.58	6.076E-03	.3067	8.232E-03	.4155	1.004E-02	.5066	7.343E-03	.3706
22.19	.429	831.06	6.027E-03	.3042	8.156E-03	.4117	9.935E-03	.5015	7.279E-03	.3674
22.54	.436	833.05	6.092E-03	.3075	8.256E-03	.4167	1.007E-02	.5082	7.363E-03	.3716
22.88	.442	834.15	6.128E-03	.3093	8.311E-03	.4195	1.014E-02	.5120	7.410E-03	.3740
23.23	.449	832.21	6.065E-03	.3061	8.214E-03	.4146	1.001E-02	.5054	7.327E-03	.3699
23.57	.456	832.49	6.074E-03	.3066	8.228E-03	.4153	1.003E-02	.5064	7.339E-03	.3705
23.91	.462	833.54	6.108E-03	.3083	8.281E-03	.4180	1.010E-02	.5099	7.384E-03	.3727
24.24	.469	831.75	6.050E-03	.3054	8.191E-03	.4135	9.982E-03	.5039	7.308E-03	.3689
24.57	.475	830.71	6.016E-03	.3037	8.140E-03	.4109	9.913E-03	.5004	7.265E-03	.3667

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
120	8	TILE INSERT	0.175	.010	-.020	1.124E 06	2.490E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	317.9	1289	39.53	39.97	30.00	-9.53	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0336	1.492	3787	2.994E-05	7.589E-08	1.494E 06	1.981E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
33.334	2.450	31.958	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.90	.481	837.45	6.105E-03	.3082	8.276E-03	.4178	1.010E-02	.5096	7.380E-03	.3725
25.23	.488	831.64	6.046E-03	.3052	8.186E-03	.4132	9.975E-03	.5035	7.304E-03	.3687
25.55	.494	830.05	5.995E-03	.3026	8.107E-03	.4092	9.869E-03	.4982	7.237E-03	.3653
25.87	.500	822.30	5.747E-03	.2901	7.731E-03	.3902	9.368E-03	.4728	6.916E-03	.3491

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
120	8	TILE INSERT	0.175	.010	-.020	1.124E 06	2.490E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREUEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	317.9	1289	39.53	39.97	30.00	-9.53	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0336	1.492	3787	2.994E-05	7.589E-08	1.494E 06	1.981E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
33.334	2.450	31.958	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.075	538.63	538.45	536.62	536.56	536.50	535.91	535.59	535.59	528.40	529.57
2.071	541.69	541.95	539.04	538.54	537.74	536.71	536.18	535.94	529.43	530.64
3.068	543.92	544.30	540.92	540.10	538.80	537.42	536.68	536.35	530.46	531.85
4.064	545.77	546.15	542.48	541.45	539.75	538.01	537.12	536.74	531.76	533.19
5.061	547.41	547.76	543.89	542.66	540.60	538.60	537.59	537.09	533.06	534.58
6.058	548.88	549.23	545.21	543.84	541.45	539.13	538.01	537.48	534.31	535.88
7.054	550.28	550.57	546.42	544.89	542.25	539.66	538.39	537.83	535.34	536.99
8.051	551.56	551.85	547.59	545.92	543.01	540.19	538.80	538.18	536.55	538.24
9.047	552.79	553.05	548.67	546.91	543.81	540.69	539.19	538.48	537.84	539.45
10.044	553.95	554.19	549.72	547.65	544.54	541.19	539.57	538.83	539.09	540.83
11.040	555.06	555.29	550.72	548.79	545.27	541.69	539.95	539.19	540.25	541.98
12.037	556.14	556.34	551.71	549.69	545.98	542.19	540.31	539.51	541.27	542.96
13.034	557.12	557.33	552.67	550.54	546.68	542.69	540.66	539.84	542.47	544.07
14.030	558.14	558.28	553.57	551.42	547.38	543.19	541.07	540.16	543.63	545.27
15.027	559.10	559.27	554.48	552.23	548.09	543.69	541.45	540.45	544.87	546.61
16.023	560.02	560.17	555.35	553.05	548.79	544.19	541.84	540.84	546.03	547.71
17.020	560.92	561.04	556.19	553.87	549.46	544.72	542.25	541.16	547.09	548.82
18.016	561.79	561.91	557.01	554.65	550.13	545.21	542.60	541.51	548.16	549.84
19.013	562.66	562.75	557.82	555.41	550.77	545.71	542.98	541.81	549.27	551.08
20.010	563.47	563.54	558.63	556.16	551.42	546.18	543.39	542.16	550.60	552.23
21.006	564.28	564.39	559.39	556.89	552.09	546.68	543.81	542.51	551.66	553.34

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
120	8	TILE INSERT	0.175	.010	-.020	1.124E 06	2.490E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	317.9	1289	39.53	39.97	30.00	-9.53	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0336	1.492	3787	2.994E-05	7.589E-08	1.494E 06	1.981E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
33.334	2.450	31.958	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.003	565.06	565.14	560.17	557.65	552.73	547.21	544.19	542.87	552.68	554.40
22.999	565.84	565.89	560.92	558.34	553.37	547.70	544.60	543.25	553.69	555.42
23.996	566.59	566.70	561.65	559.04	553.98	548.20	545.01	543.57	554.75	556.61
24.992	567.34	567.39	562.34	559.73	554.62	548.70	545.39	543.89	556.03	557.80
25.989	568.08	568.14	563.06	560.43	555.23	549.20	545.80	544.25	557.05	558.90
26.986	568.80	568.83	563.76	561.07	555.82	549.69	546.24	544.66	558.11	559.87
27.982	569.49	569.52	564.45	561.73	556.43	550.19	546.65	545.01	559.08	560.89
28.979	570.18	570.24	565.11	562.40	557.04	550.69	547.06	545.39	560.14	562.03
29.975	570.87	570.90	565.78	563.04	557.62	551.18	547.44	545.74	561.33	563.18
30.972	571.56	571.59	566.41	563.67	558.20	551.68	547.88	546.09	562.43	564.32
31.941	572.22	572.19	567.05	564.28	558.75	552.15	548.29	546.45	563.40	565.29
31.968	572.22	572.22	567.08	564.31	558.78	552.18	548.29	546.50	563.40	565.29
32.965	572.88	572.88	567.71	564.91	559.36	552.64	548.70	546.86	564.32	566.21
33.962	573.54	573.51	568.31	565.52	559.91	553.14	549.14	547.24	565.42	567.27
34.958	574.17	574.17	568.95	566.15	560.49	553.60	549.55	547.59	566.56	568.54
35.955	574.80	574.80	569.58	566.73	561.04	554.13	549.99	547.97	567.57	569.46
36.951	575.43	575.43	570.18	567.34	561.68	554.62	550.42	548.41	568.63	570.56

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
120	8	TILE INSERT	0.175	.010	-.020	1.124E 06	2.490E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	317.9	1289	39.53	39.97	30.00	-9.53	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	RHEF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0336	1.492	3787	2.994E-05	7.589E-08	1.494E 06	1.981E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
33.334	2.450	31.958	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.284	1
9.692	2
32.064	3

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
121	8	TILE INSERT	0.175	.010	-.020	9.538E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.3	1278	39.63	40.00	30.00	-9.63	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0283	1.252	3770	2.535E-05	7.541E-08	1.268E 06	1.812E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.538	2.432	19.173	500

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	565.41	4.262E-04	.0235	5.193E-04	.0287	5.830E-04	.0322	4.833E-04	.0267
8.15	.158	577.00	6.165E-04	.0340	7.539E-04	.0416	8.486E-04	.0468	7.008E-04	.0387
8.60	.166	591.67	8.716E-04	.0481	1.071E-03	.0591	1.209E-03	.0667	9.936E-04	.0548
9.05	.175	712.55	3.674E-03	.2027	4.748E-03	.2620	5.560E-03	.3068	4.318E-03	.2383
9.49	.183	687.17	2.972E-03	.1640	3.792E-03	.2092	4.399E-03	.2427	3.466E-03	.1913
9.93	.192	659.35	2.054E-03	.1134	2.580E-03	.1424	2.958E-03	.1632	2.373E-03	.1310
10.37	.200	634.19	1.786E-03	.0986	2.233E-03	.1232	2.551E-03	.1408	2.058E-03	.1135
10.81	.209	634.85	1.822E-03	.1006	2.279E-03	.1257	2.605E-03	.1437	2.100E-03	.1159
11.24	.217	642.91	1.889E-03	.1042	2.365E-03	.1305	2.706E-03	.1493	2.178E-03	.1202
11.67	.226	647.44	1.989E-03	.1098	2.495E-03	.1377	2.858E-03	.1577	2.296E-03	.1267
12.10	.234	653.69	2.131E-03	.1176	2.679E-03	.1478	3.075E-03	.1697	2.463E-03	.1359
12.52	.242	659.10	2.256E-03	.1245	2.843E-03	.1569	3.269E-03	.1804	2.612E-03	.1441
12.94	.250	665.44	2.412E-03	.1331	3.048E-03	.1682	3.511E-03	.1937	2.797E-03	.1543
13.36	.258	671.04	2.553E-03	.1408	3.234E-03	.1784	3.732E-03	.2059	2.964E-03	.1636
13.78	.266	676.14	2.684E-03	.1481	3.408E-03	.1880	3.939E-03	.2174	3.121E-03	.1722
14.19	.274	683.80	2.883E-03	.1591	3.673E-03	.2027	4.256E-03	.2349	3.360E-03	.1854
14.60	.282	691.34	3.057E-03	.1687	3.907E-03	.2156	4.538E-03	.2504	3.569E-03	.1969
15.01	.290	694.90	3.181E-03	.1755	4.074E-03	.2248	4.739E-03	.2615	3.718E-03	.2052
15.41	.298	700.26	3.328E-03	.1836	4.274E-03	.2358	4.982E-03	.2749	3.897E-03	.2150
15.81	.306	706.45	3.502E-03	.1932	4.510E-03	.2489	5.270E-03	.2908	4.108E-03	.2266
16.21	.313	710.71	3.623E-03	.1999	4.676E-03	.2580	5.472E-03	.3020	4.255E-03	.2348

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41H-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
121	8	TILE INSERT	0.175	.010	-.020	9.538E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.3	1278	39.63	40.00	30.00	-9.63	40.00	0

T - INF (DEG R)	P - INF (PSIA)	G - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R*0.040FT)	INITIAL TEMP (DEG F)
93.7	.0283	1.252	3770	2.535E-05	7.541E-08	1.268E 06	1.812E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
20.538	2.432	19.173	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	717.53	3.820E-03	.2108	4.948E-03	.2730	5.806E-03	.3204	4.496E-03	.2481
17.00	.329	722.67	3.971E-03	.2191	5.159E-03	.2846	6.066E-03	.3347	4.682E-03	.2583
17.39	.336	723.29	4.049E-03	.2234	5.268E-03	.2906	6.200E-03	.3421	4.778E-03	.2636
17.77	.344	728.73	4.152E-03	.2291	5.412E-03	.2986	6.360E-03	.3520	4.906E-03	.2707
18.16	.351	731.41	4.234E-03	.2336	5.527E-03	.3049	6.522E-03	.3599	5.006E-03	.2762
18.54	.358	732.82	4.277E-03	.2360	5.587E-03	.3083	6.598E-03	.3641	5.060E-03	.2792
18.92	.366	736.42	4.388E-03	.2421	5.744E-03	.3169	6.794E-03	.3748	5.197E-03	.2868
19.29	.373	739.46	4.483E-03	.2473	5.878E-03	.3243	6.962E-03	.3841	5.315E-03	.2933
19.66	.380	739.45	4.482E-03	.2473	5.878E-03	.3243	6.961E-03	.3841	5.314E-03	.2932
20.03	.387	741.87	4.558E-03	.2515	5.986E-03	.3303	7.097E-03	.3916	5.409E-03	.2985
20.40	.394	745.45	4.672E-03	.2578	6.148E-03	.3392	7.301E-03	.4029	5.551E-03	.3063
20.76	.401	748.43	4.768E-03	.2631	6.285E-03	.3468	7.474E-03	.4124	5.671E-03	.3129
21.12	.408	751.64	4.872E-03	.2688	6.435E-03	.3551	7.664E-03	.4229	5.801E-03	.3201
21.48	.415	753.04	4.918E-03	.2713	6.501E-03	.3587	7.748E-03	.4275	5.859E-03	.3233
21.84	.422	751.81	4.878E-03	.2691	6.443E-03	.3555	7.675E-03	.4235	5.808E-03	.3205
22.19	.429	752.51	4.900E-03	.2704	6.476E-03	.3573	7.716E-03	.4258	5.837E-03	.3221
22.54	.436	756.53	5.033E-03	.2777	6.667E-03	.3679	7.960E-03	.4392	6.003E-03	.3313
22.88	.442	757.42	5.062E-03	.2793	6.710E-03	.3703	8.015E-03	.4422	6.041E-03	.3333
23.23	.449	757.08	5.048E-03	.2786	6.690E-03	.3691	7.989E-03	.4408	6.023E-03	.3323
23.57	.456	758.57	5.101E-03	.2815	6.766E-03	.3734	8.086E-03	.4462	6.090E-03	.3360
23.91	.462	759.36	5.127E-03	.2829	6.805E-03	.3755	8.136E-03	.4489	6.123E-03	.3378
24.24	.469	758.10	5.085E-03	.2806	6.743E-03	.3721	8.057E-03	.4446	6.070E-03	.3349

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
121	B	TILE INSERT	0.175	.010	-.020	9.538E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.3	1278	39.63	40.00	30.00	-9.63	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0293	1.252	3770	2.535E-05	7.541E-08	1.268E 06	1.812E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.538	2.432	19.173	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	760.18	5.155E-03	.2844	6.845E-03	.3777	8.187E-03	.4517	6.158E-03	.3398
24.90	.481	762.72	5.241E-03	.2892	6.970E-03	.3846	8.347E-03	.4606	6.266E-03	.3458
25.23	.488	763.47	5.165E-03	.2850	6.859E-03	.3785	8.205E-03	.4527	6.170E-03	.3405
25.55	.494	758.76	5.108E-03	.2818	6.776E-03	.3739	8.099E-03	.4469	6.098E-03	.3365
25.87	.500	733.31	4.294E-03	.2369	5.610E-03	.3096	6.627E-03	.3656	5.080E-03	.2803

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
121	8	TILE INSERT	0.175	.010	-.020	9.538E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.3	1278	39.63	40.00	30.00	-9.63	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0283	1.252	3770	2.535E-05	7.541E-08	1.268E 06	1.812E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.538	2.432	19.173	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.067	536.92	536.74	535.05	535.05	534.94	534.49	534.23	534.23	536.32	537.22
2.063	539.75	539.98	537.27	536.89	536.18	535.26	534.76	534.61	537.13	538.11
3.060	541.75	542.10	538.98	538.30	537.15	535.91	535.23	534.99	537.93	539.04
4.056	543.42	543.78	540.42	539.54	538.01	536.44	535.67	535.35	539.00	540.07
5.053	544.92	545.27	541.72	540.63	538.80	536.97	536.09	535.67	540.02	541.18
6.050	546.27	546.59	542.90	541.69	539.54	537.48	536.47	536.00	541.00	542.07
7.046	547.53	547.85	543.98	542.66	540.28	537.95	536.83	536.35	541.76	543.01
8.043	548.70	548.99	545.04	543.60	540.98	538.42	537.18	536.38	542.65	543.90
9.039	549.78	550.04	546.04	544.51	541.66	538.89	537.54	536.94	543.58	544.87
10.036	550.86	551.10	546.97	545.36	542.34	539.33	537.86	537.21	544.65	545.94
11.032	551.85	552.09	547.88	546.21	542.98	539.78	538.21	537.54	545.50	546.74
12.029	552.85	553.02	548.79	547.03	543.66	540.25	538.54	537.63	546.38	547.58
13.026	553.78	553.95	549.66	547.82	544.30	540.72	538.89	538.18	547.18	548.42
14.022	554.65	554.83	550.48	548.58	544.95	541.13	539.25	538.45	548.07	549.44
15.019	555.52	555.67	551.27	549.31	545.54	541.57	539.57	538.72	549.04	550.33
16.015	556.37	556.51	552.06	550.07	546.18	542.04	539.92	539.04	550.02	551.22
17.012	557.18	557.30	552.85	550.80	546.83	542.48	540.28	539.36	550.77	552.10
18.008	557.99	558.08	553.60	551.53	547.41	542.98	540.63	539.69	551.57	552.90
19.005	558.75	558.87	554.33	552.20	548.00	543.42	540.95	539.95	552.45	553.69
19.156	558.87	558.98	554.45	552.32	548.11	543.48	541.04	540.01	552.54	553.78
20.002	559.50	559.56	555.03	552.87	548.61	543.84	541.34	540.25	553.47	554.71

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/FI OH69
V41H-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
121	A	TILE INSERT	0.175	.010	-.020	9.538E 05	0

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.3	1278	39.63	40.00	30.00	-9.63	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.7	.0283	1.252	3770	2.535E-05	7.541E-08	1.268E 06	1.812E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.538	2.432	19.173	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
20.998	560.26	560.31	555.73	553.55	549.20	544.30	541.69	540.57	554.22	555.55
21.995	560.98	561.04	556.43	554.22	549.78	544.77	542.04	540.90	555.06	556.30
22.991	561.65	561.73	557.15	554.97	551.68	545.24	542.45	541.25	555.90	557.14
23.988	562.37	562.40	557.79	555.52	550.95	545.68	542.78	541.54	556.70	557.98

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
122	8	TILE INSERT	0.175	.010	.010	7.680E 05	8.505E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	212.1	1274	39.68	39.97	30.00	-9.68	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0228	1.007	3765	2.044E-05	7.539E-08	1.021E 06	1.624E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
19.684	2.469	18.298	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	566.05	4.641E-04	.0286	5.659E-04	.0348	6.356E-04	.0391	5.266E-04	.0324
8.15	.158	576.40	6.391E-04	.0394	7.819E-04	.0481	8.802E-04	.0542	7.268E-04	.0447
8.60	.166	592.69	9.313E-04	.0573	1.145E-03	.0705	1.294E-03	.0797	1.062E-03	.0654
9.05	.175	709.70	3.719E-03	.2290	4.803E-03	.2957	5.623E-03	.3462	4.370E-03	.2691
9.49	.183	660.71	2.380E-03	.1465	3.003E-03	.1849	3.456E-03	.2128	2.758E-03	.1698
9.93	.192	628.06	1.635E-03	.1007	2.037E-03	.1254	2.322E-03	.1430	1.880E-03	.1158
10.37	.200	622.11	1.510E-03	.0930	1.877E-03	.1156	2.136E-03	.1315	1.734E-03	.1068
10.81	.209	622.62	1.521E-03	.0936	1.890E-03	.1164	2.152E-03	.1325	1.746E-03	.1075
11.24	.217	623.01	1.529E-03	.0941	1.901E-03	.1170	2.164E-03	.1332	1.756E-03	.1081
11.67	.226	624.43	1.559E-03	.0960	1.939E-03	.1194	2.208E-03	.1360	1.791E-03	.1103
12.10	.234	625.09	1.571E-03	.0967	1.954E-03	.1203	2.226E-03	.1371	1.805E-03	.1111
12.52	.242	625.57	1.583E-03	.0975	1.970E-03	.1213	2.244E-03	.1382	1.819E-03	.1120
12.94	.250	625.94	1.591E-03	.0979	1.980E-03	.1219	2.256E-03	.1389	1.828E-03	.1126
13.36	.258	626.62	1.605E-03	.0988	1.998E-03	.1230	2.277E-03	.1402	1.845E-03	.1136
13.78	.266	627.29	1.619E-03	.0997	2.016E-03	.1242	2.298E-03	.1415	1.861E-03	.1146
14.19	.274	628.13	1.637E-03	.1008	2.040E-03	.1256	2.325E-03	.1432	1.882E-03	.1159
14.60	.282	630.16	1.681E-03	.1035	2.095E-03	.1290	2.390E-03	.1472	1.933E-03	.1190
15.01	.290	630.20	1.682E-03	.1035	2.096E-03	.1291	2.391E-03	.1472	1.934E-03	.1191
15.41	.298	630.77	1.694E-03	.1043	2.112E-03	.1301	2.410E-03	.1484	1.949E-03	.1200
15.81	.306	633.34	1.749E-03	.1077	2.184E-03	.1344	2.493E-03	.1535	2.014E-03	.1240
16.21	.313	635.46	1.796E-03	.1106	2.243E-03	.1381	2.563E-03	.1578	2.068E-03	.1273

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
122	8	TILE INSERT	0.175	.010	.010	7.680E 05	8.505E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	212.1	1274	39.68	39.97	30.00	-9.68	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0228	1.007	3765	2.044E-05	7.539E-08	1.021E 06	1.624E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.684	2.469	18.298	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	634.66	1.866E-03	.1149	2.334E-03	.1437	2.669E-03	.1643	2.151E-03	.1325
17.00	.329	642.51	1.953E-03	.1202	2.446E-03	.1506	2.800E-03	.1724	2.253E-03	.1387
17.39	.336	643.79	1.982E-03	.1220	2.484E-03	.1529	2.844E-03	.1751	2.287E-03	.1408
17.77	.344	646.24	2.038E-03	.1255	2.556E-03	.1574	2.929E-03	.1804	2.353E-03	.1449
18.16	.351	648.22	2.083E-03	.1283	2.616E-03	.1610	2.999E-03	.1846	2.407E-03	.1482
18.54	.358	648.96	2.100E-03	.1293	2.638E-03	.1624	3.025E-03	.1863	2.427E-03	.1494
18.92	.366	651.74	2.165E-03	.1333	2.722E-03	.1676	3.125E-03	.1924	2.504E-03	.1542
19.29	.373	654.20	2.223E-03	.1369	2.798E-03	.1723	3.214E-03	.1979	2.572E-03	.1584
19.66	.380	654.17	2.223E-03	.1369	2.797E-03	.1722	3.213E-03	.1978	2.571E-03	.1583
20.03	.387	654.70	2.235E-03	.1376	2.814E-03	.1733	3.232E-03	.1990	2.586E-03	.1592
20.40	.394	655.64	2.258E-03	.1390	2.843E-03	.1751	3.267E-03	.2012	2.613E-03	.1609
20.76	.401	657.58	2.304E-03	.1419	2.904E-03	.1788	3.339E-03	.2056	2.668E-03	.1643
21.12	.408	660.35	2.371E-03	.1460	2.993E-03	.1843	3.444E-03	.2120	2.748E-03	.1692
21.48	.415	662.25	2.420E-03	.1490	3.056E-03	.1882	3.519E-03	.2167	2.805E-03	.1727
21.84	.422	662.17	2.418E-03	.1489	3.053E-03	.1880	3.516E-03	.2165	2.803E-03	.1726
22.19	.429	663.17	2.443E-03	.1504	3.087E-03	.1901	3.555E-03	.2189	2.835E-03	.1745
22.54	.436	665.13	2.518E-03	.1551	3.186E-03	.1962	3.673E-03	.2261	2.923E-03	.1800
22.88	.442	667.97	2.567E-03	.1580	3.250E-03	.2001	3.749E-03	.2308	2.980E-03	.1835
23.23	.449	667.97	2.567E-03	.1581	3.250E-03	.2001	3.749E-03	.2308	2.980E-03	.1835
23.57	.456	669.69	2.612E-03	.1608	3.309E-03	.2037	3.819E-03	.2351	3.034E-03	.1868
23.91	.462	671.62	2.662E-03	.1639	3.376E-03	.2079	3.899E-03	.2400	3.094E-03	.1905
24.24	.469	672.25	2.679E-03	.1649	3.398E-03	.2092	3.925E-03	.2417	3.114E-03	.1917

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
122	8	TILE INSERT	0.175	.010	.010	7.680E 05	8.505E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	212.1	1274	39.68	39.97	30.00	-9.68	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0228	1.007	3765	2.044E-05	7.539E-08	1.021E 06	1.624E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.684	2.469	18.298	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	673.68	2.714E-03	.1671	3.445E-03	.2121	3.981E-03	.2451	3.157E-03	.1944
24.90	.481	677.34	2.814E-03	.1732	3.577E-03	.2203	4.139E-03	.2548	3.275E-03	.2017
25.23	.488	676.82	2.800E-03	.1724	3.559E-03	.2191	4.117E-03	.2535	3.259E-03	.2006
25.55	.494	676.75	2.798E-03	.1723	3.557E-03	.2190	4.114E-03	.2533	3.257E-03	.2005
25.87	.500	661.95	2.387E-03	.1470	3.013E-03	.1855	3.468E-03	.2135	2.767E-03	.1704

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
122.	8	TILE INSERT	0.175	.010	.010	7.680E 05	8.505E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	212.1	1274	39.68	39.97	30.00	-9.68	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	RHEF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0228	1.007	3765	2.044E-05	7.539E-08	1.021E 06	1.624E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.684	2.469	18.298	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.083	534.02	533.87	532.27	532.36	532.12	531.83	531.53	531.59	533.10	533.69
2.079	536.50	536.77	534.25	533.96	533.34	532.51	532.06	531.94	533.55	534.00
3.076	538.30	539.66	535.79	535.23	534.20	533.07	532.48	532.27	533.87	534.49
4.072	539.81	540.16	537.09	536.35	534.96	533.60	532.89	532.60	534.40	535.03
5.069	541.13	541.51	538.24	537.33	535.64	534.05	533.25	532.86	535.03	535.70
6.066	542.37	542.69	539.28	538.27	536.35	534.49	533.60	533.19	535.56	536.19
7.062	543.51	543.81	540.31	539.19	537.03	534.94	533.93	533.48	536.01	536.59
8.059	544.57	544.86	541.25	539.98	537.65	535.38	534.25	533.78	536.46	537.08
9.055	545.57	545.86	542.13	540.81	538.24	535.79	534.58	534.05	536.95	537.62
10.052	546.53	546.77	542.98	541.60	538.89	536.18	534.88	534.31	537.57	538.24
11.048	547.44	547.68	543.84	542.34	539.48	536.59	535.17	534.58	538.15	538.73
12.045	548.32	548.52	544.63	543.10	540.07	537.00	535.50	534.88	538.46	539.13
13.042	549.14	549.34	545.42	543.81	540.66	537.42	535.79	535.14	538.95	539.62
14.038	549.96	550.13	546.15	544.48	541.22	537.80	536.09	535.38	539.45	540.11
15.035	550.77	550.89	546.85	545.19	541.78	538.21	536.41	535.67	540.11	540.69
16.031	551.53	551.68	547.55	545.83	542.34	538.60	536.71	535.94	540.47	541.23
17.028	552.26	552.38	548.29	546.50	542.90	539.04	537.03	536.24	540.96	541.58
19.024	552.96	553.08	548.95	547.15	543.45	539.45	537.36	536.50	541.32	542.07
18.230	553.14	553.28	549.14	547.30	543.60	539.54	537.42	536.56	541.58	542.25
19.021	553.66	553.75	549.64	547.76	543.98	539.84	537.65	536.74	541.98	542.65
20.018	554.36	554.45	550.28	548.36	544.51	540.25	537.98	537.03	542.47	543.18

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
122	8	TILE INSERT	0.175	.010	.010	7.680E 05	8.505E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	212.1	1274	39.68	39.97	30.00	-9.68	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0228	1.007	3765	2.044E-05	7.539E-08	1.021E 06	1.624E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.684	2.469	18.298	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.014	555.03	555.12	550.92	548.99	545.07	540.63	538.33	537.33	542.87	543.58
22.011	555.67	555.73	551.53	549.58	545.57	541.07	538.66	537.62	543.27	543.98
23.007	556.28	556.40	552.15	550.10	546.09	541.48	538.95	537.89	543.72	544.43
24.004	556.89	556.95	552.73	550.75	546.01	541.87	539.25	538.13	544.30	544.92
25.000	557.53	557.59	553.31	551.30	547.09	542.28	539.63	538.42	544.74	545.54

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
122	8	TILE INSERT	0.175	.010	.010	7.680E 05	8.505E 02

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.94	212.1	1274	39.68	39.97	30.00	-9.68	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.6	.0228	1.007	3765	2.044E-05	7.539E-08	1.021E 06	1.624E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
19.684	2.469	18.298	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.222	1
7.478	2
18.984	3

C-

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
123	8	TILE INSERT	0.175	.010	.010	9.554E 05	1.058E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.9	1275	29.75	29.99	30.00	.25	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0283	1.250	3766	2.537E-05	7.525E-08	1.270E 06	1.810E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
36.145	2.519	34.731	200

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.55	.192	611.80	9.550E-04	.0528	1.182E-03	.0653	1.342E-03	.0741	1.148E-03	.0634
10.33	.200	624.00	1.121E-03	.0619	1.394E-03	.0770	1.587E-03	.0877	1.353E-03	.0747
10.71	.207	622.77	1.118E-03	.0617	1.389E-03	.0768	1.582E-03	.0874	1.349E-03	.0745
11.10	.214	623.46	1.128E-03	.0623	1.403E-03	.0775	1.597E-03	.0882	1.362E-03	.0752
11.48	.222	624.00	1.137E-03	.0628	1.413E-03	.0781	1.609E-03	.0889	1.372E-03	.0758
11.85	.229	625.50	1.175E-03	.0649	1.462E-03	.0808	1.666E-03	.0920	1.419E-03	.0784
12.23	.236	626.13	1.169E-03	.0646	1.455E-03	.0804	1.658E-03	.0916	1.412E-03	.0780
12.60	.244	625.01	1.167E-03	.0645	1.453E-03	.0803	1.655E-03	.0914	1.410E-03	.0779
12.98	.251	626.57	1.176E-03	.0650	1.464E-03	.0809	1.668E-03	.0921	1.421E-03	.0785
13.35	.258	625.09	1.169E-03	.0646	1.454E-03	.0803	1.657E-03	.0915	1.412E-03	.0780
13.72	.265	625.48	1.159E-03	.0640	1.442E-03	.0796	1.642E-03	.0907	1.399E-03	.0773
14.08	.272	625.86	1.165E-03	.0644	1.450E-03	.0801	1.652E-03	.0912	1.407E-03	.0777
14.45	.279	627.24	1.186E-03	.0655	1.477E-03	.0816	1.683E-03	.0930	1.434E-03	.0792
14.81	.286	627.17	1.185E-03	.0655	1.476E-03	.0815	1.682E-03	.0929	1.432E-03	.0791
15.17	.293	626.72	1.178E-03	.0651	1.467E-03	.0810	1.672E-03	.0923	1.424E-03	.0786
15.53	.300	626.87	1.181E-03	.0652	1.470E-03	.0812	1.675E-03	.0925	1.427E-03	.0788
15.89	.307	627.06	1.184E-03	.0654	1.474E-03	.0814	1.679E-03	.0928	1.430E-03	.0790
16.25	.314	626.61	1.177E-03	.0650	1.465E-03	.0809	1.669E-03	.0922	1.422E-03	.0785
16.60	.321	629.51	1.222E-03	.0675	1.522E-03	.0841	1.736E-03	.0959	1.477E-03	.0816
16.96	.328	631.58	1.254E-03	.0693	1.564E-03	.0864	1.784E-03	.0986	1.517E-03	.0838
17.31	.335	632.07	1.262E-03	.0697	1.574E-03	.0869	1.796E-03	.0992	1.527E-03	.0843

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
123	8	TILE INSERT	0.175	.010	.010	9.554E 05	1.058E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.9	1275	29.75	29.99	30.00	.25	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0283	1.250	3766	2.537E-05	7.525E-08	1.270E 06	1.810E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
36.145	2.519	34.731	200

X (IN)	X/L	Td (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	633.95	1.291E-03	.0713	1.612E-03	.0890	1.840E-03	.1017	1.564E-03	.0864
18.01	.348	633.95	1.291E-03	.0713	1.612E-03	.0890	1.841E-03	.1017	1.564E-03	.0864
18.35	.355	633.61	1.286E-03	.0710	1.605E-03	.0887	1.832E-03	.1012	1.557E-03	.0860
18.70	.361	634.47	1.300E-03	.0718	1.623E-03	.0896	1.853E-03	.1023	1.574E-03	.0869
19.04	.368	637.10	1.342E-03	.0741	1.677E-03	.0926	1.916E-03	.1058	1.626E-03	.0898
19.38	.375	638.29	1.361E-03	.0752	1.701E-03	.0940	1.945E-03	.1074	1.650E-03	.0912
19.72	.381	636.93	1.339E-03	.0740	1.673E-03	.0924	1.912E-03	.1056	1.623E-03	.0897
20.06	.388	636.20	1.327E-03	.0733	1.658E-03	.0916	1.894E-03	.1046	1.608E-03	.0888
20.39	.394	635.93	1.338E-03	.0739	1.673E-03	.0924	1.911E-03	.1056	1.622E-03	.0896
20.73	.401	638.38	1.[illegible]E-03	.0753	1.704E-03	.0941	1.947E-03	.1076	1.652E-03	.0913
21.06	.407	639.81	1.369E-03	.0756	1.712E-03	.0946	1.956E-03	.1082	1.661E-03	.0917
21.39	.413	643.63	1.399E-03	.0773	1.751E-03	.0967	2.002E-03	.1106	1.698E-03	.0938
21.72	.420	643.34	1.394E-03	.0770	1.744E-03	.0964	1.995E-03	.1102	1.692E-03	.0934
22.05	.426	643.47	1.396E-03	.0771	1.747E-03	.0965	1.998E-03	.1104	1.694E-03	.0936
22.37	.432	641.14	1.407E-03	.0777	1.761E-03	.0973	2.015E-03	.1113	1.708E-03	.0943
22.69	.439	643.44	1.445E-03	.0798	1.810E-03	.1000	2.072E-03	.1145	1.755E-03	.0970
23.02	.445	644.56	1.463E-03	.0808	1.834E-03	.1013	2.100E-03	.1160	1.778E-03	.0982
23.34	.451	644.52	1.463E-03	.0808	1.833E-03	.1013	2.100E-03	.1160	1.778E-03	.0982
23.65	.457	645.75	1.483E-03	.0819	1.860E-03	.1027	2.130E-03	.1177	1.803E-03	.0996
23.97	.463	648.33	1.526E-03	.0843	1.916E-03	.1058	2.196E-03	.1213	1.857E-03	.1026
24.29	.469	648.71	1.533E-03	.0847	1.924E-03	.1063	2.206E-03	.1219	1.865E-03	.1030
24.60	.475	649.74	1.550E-03	.0856	1.947E-03	.1075	2.233E-03	.1233	1.887E-03	.1042

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
123	8	TILE INSERT	0.175	.010	.010	9.554E 05	1.058E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREHEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.9	1275	29.75	29.99	30.00	.25	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0293	1.250	3766	2.537E-05	7.525E-08	1.270E 06	1.810E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
36.145	2.519	34.731	200

X (IN)	X/L	T* (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	651.33	1.577E-03	.0871	1.982E-03	.1095	2.274E-03	.1256	1.921E-03	.1061
25.22	.487	651.85	1.586E-03	.0876	1.994E-03	.1101	2.288E-03	.1264	1.932E-03	.1067
25.53	.493	653.66	1.617E-03	.0893	2.034E-03	.1124	2.336E-03	.1290	1.971E-03	.1089
25.83	.499	652.28	1.593E-03	.0880	2.003E-03	.1106	2.299E-03	.1270	1.941E-03	.1072
26.14	.505	576.11	4.716E-04	.0260	5.768E-04	.0319	6.492E-04	.0359	5.612E-04	.0310

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
123	8	TILE INSERT	0.175	.010	.010	9.554E 05	1.058E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.9	1275	29.75	29.99	30.00	.25	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0283	1.250	3766	2.537E-05	7.525E-08	1.270E 06	1.810E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
36.145	2.519	34.731	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.105	535.88	535.35	533.40	533.28	533.19	532.54	532.21	532.21	530.87	531.22
2.101	539.72	538.45	535.38	534.79	534.02	533.10	532.63	532.45	531.14	531.40
3.098	540.81	540.57	537.03	536.09	534.82	533.60	532.98	532.74	531.36	531.67
4.094	542.54	542.31	538.42	537.24	535.56	534.14	533.34	533.04	531.45	531.81
5.091	544.07	543.81	539.69	538.30	536.27	534.49	533.63	533.31	531.45	531.85
6.088	545.45	545.16	540.87	539.30	536.92	534.94	533.93	533.54	531.49	531.94
7.084	546.74	546.39	541.93	540.25	537.59	535.32	534.25	533.78	531.72	532.03
8.081	547.94	547.59	542.98	541.16	538.24	535.70	534.49	534.02	531.94	532.34
9.077	549.05	548.67	543.98	542.04	538.89	536.12	534.82	534.28	532.12	532.48
10.074	550.13	549.72	544.95	542.92	539.54	536.53	535.08	534.52	532.12	532.52
11.070	551.12	550.72	545.86	543.72	540.16	536.94	535.41	534.79	532.17	532.57
12.067	552.09	551.65	546.71	544.51	540.78	537.33	535.67	534.99	532.34	532.75
13.018	543.19	359.87	513.45	628.91	572.83	482.89	359.83	359.83	294.98	946.17
13.032	572.22	359.87	513.45	628.91	572.83	513.42	348.29	359.83	294.98	857.51
13.041	513.45	359.87	513.45	601.16	267.91	513.42	359.83	359.83	137.35	902.00
13.054	543.19	401.52	572.22	601.16	267.91	513.42	401.48	309.73	225.12	946.17
13.054	543.19	401.52	572.22	601.16	267.91	513.42	359.83	401.48	137.35	767.48
13.068	543.19	401.52	572.22	572.80	309.73	543.16	401.48	401.48	137.35	902.00
14.060	553.87	553.40	548.38	546.04	541.98	538.13	536.27	535.50	532.66	533.06
15.057	554.74	554.24	549.17	546.77	542.57	538.54	536.56	535.73	532.70	533.10
16.053	555.58	555.03	549.96	547.47	543.19	538.95	536.86	536.00	532.79	533.28

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
123	8	TILE INSERT	0.175	.010	.010	9.554E 05	1.058E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.9	1275	29.75	29.99	30.00	.25	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0293	1.250	3766	2.537E-05	7.525E-08	1.270E 06	1.810E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
36.145	2.519	34.731	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
17.050	556.37	555.87	550.69	548.17	543.75	539.36	537.15	536.24	532.97	533.42
18.046	557.15	556.60	551.42	548.85	544.30	539.75	537.45	536.67	533.24	533.28
19.043	557.91	557.36	552.12	549.52	544.89	540.16	537.74	536.74	533.28	533.73
20.040	558.63	558.09	552.82	550.19	545.45	540.60	538.07	537.03	533.33	533.78
21.036	559.33	558.78	553.49	550.83	546.01	541.01	538.39	537.30	533.37	533.91
22.033	560.05	559.47	554.16	551.45	546.53	541.42	538.69	537.54	533.64	533.95
23.029	560.72	560.17	554.80	552.06	547.06	541.81	539.01	537.80	533.82	534.27
24.026	561.39	560.84	555.44	552.70	547.62	542.25	539.33	538.10	533.91	534.40
25.022	562.02	561.44	556.05	553.28	548.14	542.66	539.66	538.36	533.95	534.40
26.019	562.69	562.11	556.69	553.87	548.67	543.07	539.98	538.66	534.00	534.45
27.016	563.30	562.72	557.27	554.45	549.17	543.48	540.31	538.89	534.04	534.63
28.012	563.90	563.32	557.85	555.00	549.66	543.86	540.63	539.16	534.36	534.85
29.009	564.54	563.90	558.46	555.58	550.22	544.28	540.95	539.48	534.49	534.94
30.005	565.11	564.48	559.04	556.14	550.72	544.69	541.28	539.78	534.58	535.03
31.002	565.72	565.09	559.59	556.69	551.21	544.98	541.63	540.07	534.58	535.03
31.998	566.30	565.66	560.17	557.24	551.68	545.51	541.95	540.37	534.76	535.25
32.995	566.85	566.21	560.72	557.76	552.18	545.92	542.31	540.63	534.98	535.47
33.992	567.39	566.79	561.24	558.28	552.67	546.33	542.63	540.95	535.12	535.61
34.714	567.80	567.19	561.62	558.66	553.02	546.62	542.90	541.16	535.07	535.56
34.988	567.97	567.31	561.79	558.81	553.14	546.74	542.98	541.28	535.16	535.61
35.985	568.52	567.85	562.31	559.33	553.60	547.15	543.31	541.57	535.21	535.65
36.981	569.03	568.40	562.83	559.82	554.10	547.53	543.66	541.87	535.34	535.83

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
123	8	TILE INSERT	0.175	.010	.010	9.554E 05	1.058E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.9	1275	29.75	29.99	30.00	.25	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0283	1.250	3766	2.537E-05	7.525E-08	1.270E 06	1.810E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
36.145	2.519	34.731	200

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
37.978	569.58	568.92	563.32	560.34	554.56	547.94	544.01	542.16	535.56	536.05
38.974	570.10	569.41	563.84	560.84	555.03	548.35	544.36	542.45	535.74	536.23
39.971	570.62	569.93	564.36	561.33	555.52	548.76	544.72	542.78	535.79	536.28

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
123	8	TILE INSERT	0.175	.010	.010	9.554E 05	1.058E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	264.9	1275	29.75	29.99	30.00	.25	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.5	.0283	1.250	3766	2.537E-05	7.525E-08	1.270E 06	1.810E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
36.145	2.519	34.731	200

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.163	1
10.988	2
13.022	3
35.509	4

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
124	8	TILE INSERT	0.175	.010	.010	9.603E 05	1.063E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.7	1273	39.65	40.02	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0283	1.254	3764	2.548E-05	7.515E-08	1.276E 06	1.813E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
18.289	2.551	16.857	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	562.13	4.172E-04	.0230	5.082E-04	.0280	5.704E-04	.0315	4.730E-04	.0261
8.15	.158	572.72	6.009E-04	.0332	7.344E-04	.0405	8.261E-04	.0456	6.827E-04	.0377
8.60	.166	585.93	8.408E-04	.0464	1.032E-03	.0569	1.164E-03	.0642	9.577E-04	.0528
9.05	.175	668.95	2.704E-03	.1492	3.426E-03	.1890	3.953E-03	.2181	3.140E-03	.1732
9.49	.183	704.82	3.733E-03	.2059	4.810E-03	.2654	5.622E-03	.3102	4.379E-03	.2416
9.93	.192	655.85	2.360E-03	.1302	2.973E-03	.1640	3.417E-03	.1885	2.731E-03	.1507
10.37	.200	637.59	1.922E-03	.1061	2.404E-03	.1326	2.748E-03	.1516	2.215E-03	.1222
10.81	.209	638.08	1.934E-03	.1067	2.419E-03	.1334	2.766E-03	.1526	2.228E-03	.1229
11.24	.217	645.04	2.097E-03	.1157	2.630E-03	.1451	3.013E-03	.1662	2.421E-03	.1335
11.67	.226	654.72	2.332E-03	.1287	2.937E-03	.1620	3.374E-03	.1861	2.698E-03	.1489
12.10	.234	664.76	2.591E-03	.1429	3.277E-03	.1808	3.777E-03	.2083	3.006E-03	.1658
12.52	.242	674.42	2.854E-03	.1574	3.625E-03	.2000	4.190E-03	.2312	3.319E-03	.1831
12.94	.250	685.12	3.154E-03	.1740	4.026E-03	.2221	4.671E-03	.2577	3.679E-03	.2030
13.36	.258	692.56	3.369E-03	.1859	4.315E-03	.2381	5.020E-03	.2769	3.938E-03	.2173
13.78	.266	701.73	3.640E-03	.2008	4.684E-03	.2584	5.467E-03	.3016	4.267E-03	.2354
14.19	.274	713.12	3.895E-03	.2149	5.033E-03	.2777	5.894E-03	.3252	4.577E-03	.2525
14.60	.282	719.27	4.181E-03	.2306	5.428E-03	.2995	6.380E-03	.3520	4.927E-03	.2718
15.01	.290	725.06	4.366E-03	.2408	5.686E-03	.3137	6.700E-03	.3696	5.155E-03	.2844
15.41	.298	730.48	4.541E-03	.2505	5.933E-03	.3273	7.007E-03	.3866	5.372E-03	.2964
15.81	.306	736.31	4.734E-03	.2612	6.206E-03	.3424	7.348E-03	.4054	5.611E-03	.3096
16.21	.313	740.66	4.881E-03	.2693	6.414E-03	.3539	7.610E-03	.4198	5.794E-03	.3196

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
124	8	TILE INSERT	0.175	.010	.010	9.603E 05	1.063E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.7	1273	39.65	40.02	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0293	1.254	3764	2.548E-05	7.515E-08	1.276E 06	1.813E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
18.289	2.551	16.857	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	745.66	5.051E-03	.2787	6.658E-03	.3673	7.918E-03	.4368	6.007E-03	.3314
17.00	.329	749.52	5.185E-03	.2861	6.851E-03	.3780	8.162E-03	.4503	6.175E-03	.3407
17.39	.336	751.12	5.296E-03	.2872	6.881E-03	.3794	8.200E-03	.4524	6.201E-03	.3421
17.77	.344	752.38	5.286E-03	.2916	6.996E-03	.3860	8.346E-03	.4604	6.301E-03	.3476
18.16	.351	753.52	5.326E-03	.2938	7.054E-03	.3892	8.420E-03	.4645	6.351E-03	.3504
18.54	.359	753.45	5.323E-03	.2937	7.050E-03	.3890	8.416E-03	.4643	6.348E-03	.3502
18.92	.366	754.61	5.365E-03	.2960	7.110E-03	.3923	8.492E-03	.4685	6.400E-03	.3531
19.29	.373	756.27	5.424E-03	.2992	7.197E-03	.3970	8.602E-03	.4746	6.475E-03	.3572
19.66	.380	754.93	5.376E-03	.2966	7.127E-03	.3932	8.514E-03	.4697	6.415E-03	.3539
20.03	.387	755.59	5.399E-03	.2979	7.161E-03	.3950	8.556E-03	.4720	6.444E-03	.3555
20.40	.394	757.89	5.482E-03	.3025	7.281E-03	.4017	8.711E-03	.4806	6.549E-03	.3613
20.76	.401	760.24	5.567E-03	.3071	7.405E-03	.4085	8.869E-03	.4893	6.656E-03	.3672
21.12	.408	761.47	5.612E-03	.3096	7.470E-03	.4121	8.953E-03	.4939	6.712E-03	.3703
21.48	.415	761.95	5.629E-03	.3106	7.496E-03	.4135	8.986E-03	.4957	6.735E-03	.3715
21.84	.422	758.79	5.515E-03	.3043	7.329E-03	.4043	8.772E-03	.4839	6.590E-03	.3636
22.19	.429	757.87	5.482E-03	.3024	7.281E-03	.4017	8.710E-03	.4805	6.548E-03	.3613
22.54	.436	759.93	5.556E-03	.3065	7.389E-03	.4077	8.849E-03	.4882	6.642E-03	.3665
22.88	.442	760.33	5.571E-03	.3073	7.410E-03	.4088	8.876E-03	.4897	6.660E-03	.3675
23.23	.449	758.38	5.501E-03	.3035	7.308E-03	.4032	8.745E-03	.4824	6.572E-03	.3626
23.57	.456	759.47	5.540E-03	.3056	7.366E-03	.4064	8.818E-03	.4865	6.622E-03	.3653
23.91	.462	759.88	5.552E-03	.3063	7.383E-03	.4073	8.840E-03	.4877	6.637E-03	.3661
24.24	.469	757.75	5.478E-03	.3022	7.276E-03	.4014	8.703E-03	.4801	6.544E-03	.3610

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
124	8	TILE INSERT	0.175	.010	.010	9.603E 05	1.063E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.7	1273	39.65	40.02	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0283	1.254	3764	2.548E-05	7.515E-08	1.276E 06	1.813E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.289	2.551	16.857	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	757.73	5.478E-03	.3022	7.274E-03	.4013	8.702E-03	.4801	6.543E-03	.3610
24.90	.481	761.38	5.609E-03	.3095	7.467E-03	.4119	8.949E-03	.4937	6.710E-03	.3702
25.23	.488	759.01	5.524E-03	.3047	7.342E-03	.4050	8.788E-03	.4848	6.601E-03	.3642
25.55	.494	757.10	5.455E-03	.3010	7.242E-03	.3995	8.660E-03	.4778	6.515E-03	.3594
25.87	.500	741.84	4.923E-03	.2716	6.474E-03	.3572	7.685E-03	.4240	5.846E-03	.3225

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
124	8	TILE INSERT	0.175	.010	.010	9.603E 05	1.063E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.7	1273	39.65	40.02	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0283	1.254	3764	2.548E-05	7.515E-08	1.276E 06	1.813E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.289	2.551	16.857	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.119	535.35	535.23	533.46	533.46	533.28	532.83	532.54	532.54	531.90	532.75
2.115	538.13	538.42	535.64	535.23	534.52	533.57	533.04	532.89	532.70	533.69
3.112	540.10	540.45	537.33	536.65	535.47	534.20	533.51	533.31	533.60	534.76
4.109	541.78	542.16	538.74	537.86	536.29	534.76	533.96	533.63	534.63	535.83
5.105	543.25	543.63	540.01	538.95	537.12	535.26	534.37	533.96	535.74	536.99
6.102	544.60	544.95	541.19	540.01	537.86	535.76	534.76	534.28	536.81	538.11
7.098	545.86	546.18	542.31	540.98	538.57	536.24	535.11	534.61	537.75	539.04
8.095	547.03	547.32	543.34	541.90	539.28	536.74	535.47	534.94	538.64	540.02
9.091	548.17	548.41	544.33	542.81	539.95	537.18	535.82	535.23	539.67	541.05
10.088	549.23	549.43	545.27	543.66	540.63	537.62	536.15	535.50	540.87	542.16
11.085	550.22	550.39	546.21	544.51	541.31	538.07	536.50	535.82	541.85	543.18
12.081	551.15	551.36	547.09	545.33	541.95	538.51	536.86	536.15	542.78	544.12
13.078	552.12	552.23	547.97	546.12	542.60	538.98	537.15	536.44	543.63	545.01
14.074	552.99	553.14	548.79	546.89	543.22	539.42	537.54	536.74	544.56	545.98
15.071	553.87	553.98	549.58	547.62	543.86	539.86	537.86	537.00	545.67	547.05
16.067	554.68	554.83	550.37	548.38	544.48	540.31	538.21	537.33	546.69	548.07
16.840	555.32	555.44	550.98	548.93	544.95	540.69	538.48	537.56	547.27	548.73
17.064	555.50	555.61	551.12	549.08	545.10	540.78	538.54	537.62	547.54	548.96
18.061	556.31	556.40	551.88	549.81	545.71	541.25	538.92	537.95	548.38	549.89
19.057	557.07	557.18	552.61	550.48	546.30	541.69	539.25	538.24	549.31	550.82
20.054	557.79	557.91	553.31	551.15	546.89	542.13	539.60	538.51	550.42	551.88

NASA/RI 0H69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/08/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
124	8	TILE INSERT	0.175	.010	.010	9.603E 05	1.063E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.7	1273	39.65	40.02	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0283	1.254	3764	2.548E-05	7.515E-06	1.276E 06	1.813E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.269	2.551	16.857	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.050	558.55	558.63	554.01	551.83	547.47	542.57	539.98	538.83	551.39	552.81
22.047	559.27	559.33	554.71	552.50	548.03	543.04	540.34	539.19	552.32	553.74

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
124	8	TILE INSERT	0.175	.010	.010	9.603E 05	1.063E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.95	265.7	1273	39.65	40.02	30.00	-9.65	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
93.3	.0283	1.254	3764	2.548E-05	7.515E-08	1.276E 06	1.813E-02	76

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.289	2.551	16.857	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.323	1
9.690	2
17.658	3

NASA/RI OH69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/08/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
125	8	TILE INSERT	0.175	.010	.010	1.136E 06	1.258E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.3	1289	39.54	39.98	30.00	-9.54	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0340	1.508	3787	3.025E-05	7.591E-08	1.509E 06	1.992E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.343	2.546	11.913	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	564.82	5.751E-04	.0289	6.997E-04	.0351	7.846E-04	.0394	6.517E-04	.0327
8.15	.158	575.12	7.861E-04	.0395	9.594E-04	.0482	1.078E-03	.0541	8.925E-04	.0448
8.60	.166	59[illegible].23	1.113E-03	.0559	1.365E-03	.0685	1.539E-03	.0773	1.266E-03	.0636
9.05	.175	644.49	2.517E-03	.1264	3.149E-03	.1581	3.601E-03	.1808	2.901E-03	.1457
9.49	.183	711.89	4.622E-03	.2320	5.951E-03	.2988	6.950E-03	.3489	5.421E-03	.2721
9.93	.192	661.2[illegible]	2.940E-03	.1476	3.700E-03	.1857	4.248E-03	.2133	3.401E-03	.1707
10.37	.200	651.01	2.644E-03	.1327	3.313E-03	.1663	3.793E-03	.1905	3.051E-03	.1532
10.81	.209	665.81	3.083E-03	.1548	3.887E-03	.1951	4.469E-03	.2244	3.570E-03	.1792
11.24	.217	682.16	3.605E-03	.1810	4.577E-03	.2298	5.291E-03	.2656	4.193E-03	.2105
11.67	.226	693.36	4.183E-03	.2100	5.353E-03	.2688	6.224E-03	.3125	4.888E-03	.2454
12.10	.234	713.81	4.691E-03	.2355	6.046E-03	.3036	7.067E-03	.3548	5.505E-03	.2764
12.52	.242	723.5[illegible]	5.045E-03	.2533	6.534E-03	.3280	7.605E-03	.3849	5.938E-03	.2981
12.94	.250	729.47	5.267E-03	.2645	6.844E-03	.3436	8.049E-03	.4041	6.212E-03	.3119
13.36	.258	735.96	5.514E-03	.2769	7.190E-03	.3610	8.479E-03	.4257	6.517E-03	.3272
13.78	.266	74[illegible].05	5.673E-03	.2848	7.413E-03	.3722	8.757E-03	.4396	6.713E-03	.3370
14.19	.274	745.8[illegible]	5.894E-03	.2961	7.734E-03	.3883	9.158E-03	.4598	6.994E-03	.3511
14.60	.282	749.73	6.056E-03	.3040	7.958E-03	.3995	9.440E-03	.4740	7.190E-03	.3610
15.01	.290	749.7[illegible]	6.054E-03	.3040	7.956E-03	.3994	9.438E-03	.4738	7.186E-03	.3609
15.41	.298	749.68	6.054E-03	.3039	7.955E-03	.3994	9.437E-03	.4738	7.187E-03	.3609
15.81	.306	752.36	6.162E-03	.3094	8.110E-03	.4072	9.632E-03	.4836	7.322E-03	.3676
16.21	.313	753.34	6.202E-03	.3114	8.167E-03	.4100	9.705E-03	.4872	7.372E-03	.3701

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
125	8	TILE INSERT	0.175	.010	.010	1.136E 06	1.258E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.3	1289	39.54	39.98	30.00	-9.54	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0340	1.508	3787	3.025E-05	7.591E-08	1.509E 06	1.992E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
13.343	2.546	11.913	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	754.39	6.245E-03	.3135	8.229E-03	.4132	9.783E-03	.4912	7.427E-03	.3729
17.00	.329	757.69	6.381E-03	.3203	8.424E-03	.4230	1.003E-02	.5036	7.597E-03	.3814
17.39	.336	756.80	6.344E-03	.3185	8.372E-03	.4203	9.964E-03	.5002	7.551E-03	.3791
17.77	.344	756.66	6.338E-03	.3182	8.363E-03	.4199	9.953E-03	.4997	7.544E-03	.3787
18.16	.351	756.72	6.341E-03	.3184	8.367E-03	.4201	9.958E-03	.5000	7.547E-03	.3789
18.54	.358	756.11	6.316E-03	.3171	8.331E-03	.4183	9.912E-03	.4977	7.516E-03	.3773
18.92	.366	756.44	6.330E-03	.3178	8.351E-03	.4193	9.937E-03	.4989	7.533E-03	.3782
19.29	.373	757.02	6.354E-03	.3190	8.385E-03	.4210	9.981E-03	.5011	7.563E-03	.3797
19.66	.380	755.55	6.294E-03	.3160	8.299E-03	.4167	9.871E-03	.4956	7.487E-03	.3759
20.03	.387	755.40	6.287E-03	.3157	8.290E-03	.4162	9.860E-03	.4950	7.480E-03	.3755
20.40	.394	757.46	6.372E-03	.3199	8.412E-03	.4224	1.002E-02	.5028	7.586E-03	.3809
20.76	.401	759.16	6.443E-03	.3235	8.514E-03	.4275	1.014E-02	.5093	7.675E-03	.3853
21.12	.408	760.26	6.489E-03	.3258	8.580E-03	.4308	1.023E-02	.5136	7.733E-03	.3882
21.48	.415	761.25	6.530E-03	.3279	8.641E-03	.4339	1.031E-02	.5174	7.785E-03	.3909
21.84	.422	758.86	6.431E-03	.3229	8.497E-03	.4266	1.012E-02	.5082	7.660E-03	.3846
22.19	.429	757.29	6.366E-03	.3196	8.403E-03	.4219	1.000E-02	.5022	7.578E-03	.3805
22.54	.436	758.50	6.416E-03	.3221	8.476E-03	.4255	1.010E-02	.5069	7.642E-03	.3837
22.88	.442	760.62	6.505E-03	.3266	8.604E-03	.4320	1.026E-02	.5150	7.753E-03	.3892
23.23	.449	759.35	6.452E-03	.3239	8.527E-03	.4281	1.016E-02	.5101	7.686E-03	.3859
23.57	.456	759.16	6.444E-03	.3235	8.516E-03	.4276	1.015E-02	.5094	7.677E-03	.3854
23.91	.462	759.81	6.471E-03	.3249	8.555E-03	.4295	1.020E-02	.5119	7.711E-03	.3871
24.24	.469	757.57	6.379E-03	.3202	8.421E-03	.4228	1.003E-02	.5034	7.594E-03	.3813

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
125	8	TILE INSERT	0.175	.010	.010	1.136E 06	1.258E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.3	1289	39.54	39.98	30.00	-9.54	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0340	1.508	3787	3.025E-05	7.591E-08	1.509E 06	1.992E-02	74

TOTAL TIME SECONDS.	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.343	2.546	11.913	500

X (IN)	X/L	TW (DEG R).	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	756.83	6.348E-03	.3187	8.377E-03	.4206	9.971E-03	.5006	7.556E-03	.3794
24.90	.481	760.91	6.518E-03	.3272	8.622E-03	.4329	1.028E-02	.5162	7.769E-03	.3901
25.23	.488	758.92	6.435E-03	.3231	8.503E-03	.4269	1.013E-02	.5086	7.665E-03	.3848
25.55	.494	757.33	6.370E-03	.3198	8.408E-03	.4221	1.001E-02	.5025	7.583E-03	.3807
25.87	.500	749.61	6.056E-03	.3040	7.957E-03	.3995	9.439E-03	.4739	7.189E-03	.3609

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
125	B	TILE INSERT	0.175	.010	.010	1.136E 06	1.258E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.3	1289	39.54	39.98	30.00	-9.54	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0340	1.508	3787	3.025E-05	7.591E-08	1.509E 06	1.992E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
13.343	2.546	11.913	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.117	527.49	527.40	525.40	525.34	525.13	524.72	524.48	524.54	536.46	537.53
2.113	530.61	530.94	527.85	527.31	526.51	525.52	525.05	524.93	537.39	538.60
3.110	532.86	533.31	529.78	528.92	527.58	526.21	525.55	525.31	538.55	539.98
4.107	534.73	535.20	531.38	530.31	528.56	526.83	526.03	525.67	539.98	541.45
5.103	536.44	536.86	532.80	531.56	529.42	527.43	526.48	526.09	541.18	542.74
6.100	537.95	538.36	534.17	532.74	530.31	527.99	526.92	526.45	542.29	543.94
7.096	539.33	539.75	535.41	533.87	531.14	528.56	527.34	526.86	543.45	545.10
8.093	540.69	541.04	536.59	534.91	531.91	529.06	527.73	527.16	544.70	546.43
9.089	541.93	542.28	537.68	535.88	532.69	529.57	528.11	527.49	546.03	547.76
10.086	543.13	543.42	538.77	536.89	533.46	530.07	528.53	527.87	547.18	549.00
11.083	544.28	544.54	539.84	537.83	534.20	530.61	528.89	528.20	548.29	549.98
11.896	545.19	545.45	540.66	538.60	534.82	531.05	529.21	528.47	549.35	551.04
12.079	545.36	545.62	540.81	538.74	534.96	531.14	529.30	528.53	549.49	551.26
13.076	546.42	546.62	541.78	539.63	535.67	531.65	529.66	528.83	550.77	552.54
14.072	547.41	547.65	542.72	540.54	536.41	532.15	530.07	529.24	551.97	553.74
15.069	548.41	548.61	543.66	541.40	537.12	532.69	530.46	529.57	552.99	554.84
16.065	549.34	549.55	544.57	542.42	537.71	533.22	530.91	529.93	554.13	555.86

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
125	8	TILE INSERT	0.175	.010	.010	1.136E 06	1.258E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	321.3	1289	39.54	39.98	30.00	-9.54	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0340	1.508	3787	3.025E-05	7.591E-08	1.509E 06	1.992E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
13.343	2.546	11.913	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.577	1
8.129	2
12.724	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41B-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
126	8	TILE INSERT	0.175	.010	.010	1.132E 06	1.253E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.3	1290	29.71	30.00	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0339	1.503	3788	3.015E-05	7.594E-08	1.504E 06	1.989E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.752	2.528	38.333	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	615.27	9.370E-04	.0471	1.159E-03	.0583	1.314E-03	.0661	1.125E-03	.0566
10.33	.200	626.99	1.101E-03	.0554	1.367E-03	.0688	1.555E-03	.0782	1.327E-03	.0667
10.71	.207	628.13	1.118E-03	.0562	1.388E-03	.0698	1.580E-03	.0794	1.348E-03	.0678
11.10	.214	629.33	1.135E-03	.0571	1.410E-03	.0709	1.605E-03	.0807	1.369E-03	.0688
11.48	.222	631.02	1.159E-03	.0583	1.442E-03	.0725	1.642E-03	.0825	1.399E-03	.0704
11.85	.229	633.27	1.192E-03	.0599	1.484E-03	.0746	1.691E-03	.0850	1.440E-03	.0724
12.23	.236	633.23	1.192E-03	.0599	1.483E-03	.0746	1.690E-03	.0850	1.439E-03	.0724
12.60	.244	634.40	1.209E-03	.0608	1.505E-03	.0757	1.716E-03	.0863	1.461E-03	.0735
12.98	.251	635.02	1.218E-03	.0612	1.517E-03	.0763	1.729E-03	.0869	1.472E-03	.0740
13.35	.258	635.09	1.219E-03	.0613	1.518E-03	.0763	1.731E-03	.0870	1.473E-03	.0741
13.72	.265	636.00	1.233E-03	.0620	1.536E-03	.0772	1.751E-03	.0880	1.490E-03	.0749
14.08	.272	638.36	1.268E-03	.0637	1.581E-03	.0795	1.804E-03	.0907	1.534E-03	.0771
14.45	.279	639.92	1.291E-03	.0649	1.611E-03	.0810	1.839E-03	.0925	1.563E-03	.0786
14.81	.286	639.83	1.290E-03	.0649	1.609E-03	.0809	1.837E-03	.0923	1.561E-03	.0785
15.17	.293	640.67	1.303E-03	.0655	1.626E-03	.0817	1.856E-03	.0933	1.577E-03	.0793
15.53	.300	641.62	1.317E-03	.0662	1.644E-03	.0827	1.878E-03	.0944	1.595E-03	.0802
15.89	.307	641.94	1.322E-03	.0665	1.650E-03	.0830	1.885E-03	.0948	1.601E-03	.0805
16.25	.314	642.51	1.331E-03	.0669	1.662E-03	.0835	1.898E-03	.0954	1.612E-03	.0810
16.60	.321	645.78	1.381E-03	.0694	1.727E-03	.0868	1.974E-03	.0992	1.674E-03	.0842
16.96	.328	648.28	1.419E-03	.0714	1.777E-03	.0893	2.032E-03	.1022	1.723E-03	.0866
17.31	.335	650.30	1.451E-03	.0730	1.818E-03	.0914	2.081E-03	.1046	1.762E-03	.0886

NASA/RI OH69
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
126	8	TILE INSERT	0.175	.010	.010	1.132E 06	1.253E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.3	1290	29.71	30.00	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0339	1.503	3788	3.015E-05	7.594E-08	1.504E 06	1.989E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
39.752	2.528	38.333	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	652.14	1.480E-03	.0744	1.855E-03	.0933	2.125E-03	.1068	1.799E-03	.0904
18.01	.348	653.67	1.504E-03	.0756	1.887E-03	.0949	2.162E-03	.1087	1.829E-03	.0920
18.35	.355	653.89	1.508E-03	.0758	1.892E-03	.0951	2.167E-03	.1090	1.834E-03	.0922
18.70	.361	656.03	1.542E-03	.0775	1.936E-03	.0973	2.220E-03	.1116	1.877E-03	.0944
19.04	.368	660.14	1.609E-03	.0809	2.024E-03	.1017	2.323E-03	.1168	1.961E-03	.0986
19.38	.375	661.70	1.636E-03	.0822	2.059E-03	.1035	2.364E-03	.1189	1.995E-03	.1003
19.72	.381	661.69	1.634E-03	.0822	2.056E-03	.1034	2.361E-03	.1187	1.992E-03	.1002
20.06	.388	662.81	1.655E-03	.0832	2.084E-03	.1048	2.394E-03	.1203	2.019E-03	.1015
20.39	.394	665.32	1.698E-03	.0854	2.140E-03	.1076	2.461E-03	.1237	2.073E-03	.1042
20.73	.401	668.16	1.748E-03	.0879	2.205E-03	.1109	2.537E-03	.1276	2.136E-03	.1074
21.06	.407	670.64	1.791E-03	.0901	2.262E-03	.1138	2.605E-03	.1310	2.191E-03	.1102
21.39	.413	673.76	1.846E-03	.0928	2.335E-03	.1174	2.692E-03	.1353	2.261E-03	.1137
21.72	.420	675.12	1.870E-03	.0940	2.367E-03	.1190	2.730E-03	.1373	2.292E-03	.1152
22.05	.426	676.73	1.899E-03	.0955	2.405E-03	.1209	2.775E-03	.1395	2.328E-03	.1171
22.37	.432	680.27	1.963E-03	.0987	2.490E-03	.1252	2.876E-03	.1446	2.410E-03	.1212
22.69	.439	683.91	2.029E-03	.1020	2.578E-03	.1296	2.982E-03	.1499	2.495E-03	.1254
23.02	.445	686.93	2.066E-03	.1039	2.627E-03	.1321	3.040E-03	.1529	2.541E-03	.1278
23.34	.451	688.60	2.116E-03	.1064	2.694E-03	.1355	3.120E-03	.1569	2.606E-03	.1310
23.65	.457	692.19	2.183E-03	.1098	2.784E-03	.1400	3.229E-03	.1623	2.692E-03	.1354
23.97	.463	695.00	2.236E-03	.1124	2.855E-03	.1436	3.314E-03	.1666	2.760E-03	.1388
24.29	.469	697.10	2.276E-03	.1144	2.909E-03	.1463	3.379E-03	.1699	2.812E-03	.1414
24.60	.475	700.83	2.347E-03	.1180	3.006E-03	.1511	3.496E-03	.1758	2.905E-03	.1460

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
126	8	TILE INSERT	0.175	.010	.010	1.132E 06	1.253E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.3	1290	29.71	30.00	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0339	1.503	3788	3.015E-05	7.594E-08	1.504E 06	1.989E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.752	2.528	38.333	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	704.94	2.427E-03	.1220	3.114E-03	.1566	3.627E-03	.1824	3.008E-03	.1513
25.22	.487	705.64	2.441E-03	.1227	3.133E-03	.1575	3.650E-03	.1835	3.026E-03	.1521
25.53	.493	705.62	2.499E-03	.1257	3.212E-03	.1615	3.747E-03	.1884	3.102E-03	.1560
25.83	.499	701.61	2.363E-03	.1188	3.026E-03	.1522	3.521E-03	.1770	2.924E-03	.1470
26.14	.505	586.52	5.644E-04	.0284	6.912E-04	.0348	7.786E-04	.0391	6.724E-04	.0338

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
126	8	TILE INSERT	0.175	.010	.010	1.132E 06	1.253E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.3	1290	29.71	30.00	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0339	1.503	3788	3.015E-05	7.594E-08	1.504E 06	1.989E-02	75

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.752	2.528	38.333	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.109	531.08	530.58	528.29	528.11	528.09	527.34	526.98	526.89	527.32	528.58
2.105	534.28	534.05	530.55	529.84	528.95	527.96	527.40	527.22	527.77	528.76
3.102	536.62	536.41	532.39	531.32	529.84	528.50	527.82	527.55	527.86	528.85
4.098	538.57	538.39	533.99	532.63	530.70	529.03	528.20	527.87	528.00	529.07
5.095	540.31	540.07	535.41	533.81	531.47	529.51	528.56	528.14	528.27	529.25
6.092	541.87	541.57	536.71	534.88	532.24	529.96	528.89	528.38	528.58	529.61
7.088	543.31	542.98	537.95	536.00	532.98	530.43	529.21	528.68	528.80	529.88
8.085	544.66	544.30	539.13	537.03	533.72	530.88	529.54	529.00	528.98	529.93
9.081	545.89	545.54	540.22	538.04	534.43	531.32	529.84	529.27	529.16	530.06
10.078	547.06	546.68	541.31	538.98	535.14	531.77	530.16	529.51	529.43	530.28
11.074	548.20	547.82	542.28	539.92	535.82	532.21	530.49	529.78	529.79	530.60
12.071	549.28	548.85	543.28	540.78	536.53	532.66	530.82	530.07	530.02	530.91
13.068	550.34	549.90	544.25	541.66	537.24	533.13	531.14	530.34	530.10	530.91
14.064	551.33	550.86	545.19	542.51	537.92	533.60	531.47	530.61	530.28	531.18
15.061	552.32	551.80	546.06	543.34	538.60	534.08	531.80	530.91	530.55	531.36
16.057	553.25	552.73	546.91	544.16	539.25	534.49	532.15	531.17	530.87	531.63
17.054	554.13	553.57	547.76	544.92	539.89	534.96	532.51	531.44	531.14	531.85
18.050	555.00	554.48	548.58	545.68	540.54	535.44	532.83	531.77	531.22	532.08
19.047	555.84	555.29	549.40	546.45	541.19	535.91	533.19	532.06	531.40	532.12
20.044	556.66	556.11	550.16	547.18	541.81	536.35	533.54	532.33	531.67	532.39
21.040	557.47	556.89	550.92	547.91	542.42	536.83	533.90	532.60	531.94	532.66

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
126	8	TILE INSERT	0.175	.010	.010	1.132E 06	1.253E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.3	1290	29.71	30.00	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0339	1.503	3788	3.015E-05	7.594E-08	1.504E 06	1.989E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.752	2.528	38.333	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.037	558.26	557.68	551.65	548.61	543.04	537.30	534.25	532.92	532.17	532.93
23.033	559.01	558.43	552.41	549.31	543.66	537.77	534.61	533.25	532.30	532.97
24.030	559.76	559.16	553.14	549.99	544.28	538.24	534.96	533.57	532.43	533.19
25.026	560.49	559.88	553.84	550.66	544.83	538.72	535.32	533.84	532.66	533.42
26.023	561.21	560.60	554.51	551.33	545.42	539.16	535.70	534.14	532.97	533.64
27.020	561.91	561.30	555.18	551.97	546.01	539.60	536.06	534.46	533.15	533.91
28.016	562.63	561.96	555.84	552.61	546.59	540.07	536.44	534.82	533.33	534.09
29.013	563.30	562.66	556.51	553.25	547.15	540.54	536.80	535.11	533.46	534.13
30.009	563.93	563.30	557.15	553.87	547.73	540.98	537.18	535.44	533.60	534.40
31.006	564.62	563.93	557.78	554.48	548.29	541.45	537.56	535.73	533.95	534.71
32.002	565.26	564.60	558.40	555.09	548.85	541.90	537.92	536.09	534.22	534.89
32.999	565.87	565.20	559.04	555.67	549.37	542.37	538.30	536.44	534.36	534.98
33.996	566.53	565.84	559.65	556.28	549.93	542.84	538.69	536.77	534.49	535.16
34.992	567.13	566.44	560.26	556.86	550.48	543.31	539.07	537.09	534.76	535.38
35.989	567.71	567.05	560.81	557.44	551.01	543.75	539.45	537.42	534.98	535.70
36.985	568.34	567.65	561.39	557.99	551.53	544.19	539.84	537.77	535.30	535.92
37.982	568.95	568.26	561.99	558.57	552.06	544.66	540.25	538.13	535.43	536.10
38.316	569.12	568.43	562.20	558.75	552.23	544.77	540.37	538.27	535.52	536.19
38.978	569.52	568.83	562.57	559.13	552.58	545.10	540.63	538.51	535.56	536.19
39.975	570.10	569.41	563.15	559.68	553.11	545.57	541.01	538.83	535.74	536.41
40.972	570.67	569.98	563.70	560.23	553.60	545.98	541.40	539.19	536.01	536.64
41.968	571.22	570.53	564.25	560.75	554.13	546.42	541.81	539.51	536.28	536.90

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
126	8	TILE INSERT	0.175	.010	.010	1.132E 06	1.253E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.3	1290	29.71	30.00	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0339	1.503	3788	3.015E-05	7.594E-08	1.504E 06	1.989E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.752	2.528	38.333	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
42.965	571.79	571.08	564.80	561.30	554.62	546.89	542.19	539.89	536.46	537.13
43.961	572.34	571.59	565.35	561.82	555.15	547.32	542.57	540.28	536.55	537.26

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
126	B	TILE INSERT	0.175	.010	.010	1.132E 06	1.253E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.96	320.3	1290	29.71	30.00	30.00	.29	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	PREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.3	.0339	1.503	3788	3.015E-05	7.594E-08	1.504E 06	1.989E-02	75

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
39.752	2.528	38.333	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
9.342	1
20.153	2
39.335	3

NASA/RI 0869
V41d-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/08/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
127	8	TILE INSERT	0.175	.010	.010	1.319E 06	1.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.6	1294	29.62	29.96	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0395	1.757	3795	3.511E-05	7.603E-08	1.753E 06	2.152E-02	66

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.752	2.523	17.375	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	591.28	1.063E-03	.0494	1.302E-03	.0605	1.468E-03	.0682	1.267E-03	.0589
10.33	.200	605.97	1.345E-03	.0625	1.657E-03	.0770	1.874E-03	.0871	1.611E-03	.0749
10.71	.207	608.20	1.390E-03	.0646	1.713E-03	.0796	1.938E-03	.0901	1.665E-03	.0774
11.10	.214	608.66	1.399E-03	.0650	1.724E-03	.0801	1.951E-03	.0907	1.676E-03	.0779
11.48	.222	612.42	1.474E-03	.0685	1.820E-03	.0846	2.061E-03	.0958	1.769E-03	.0822
11.85	.229	615.39	1.535E-03	.0713	1.897E-03	.0881	2.150E-03	.0999	1.843E-03	.0857
12.23	.236	618.34	1.596E-03	.0742	1.974E-03	.0917	2.239E-03	.1041	1.918E-03	.0891
12.60	.244	622.65	1.686E-03	.0784	2.088E-03	.0971	2.372E-03	.1102	2.029E-03	.0943
12.98	.251	625.67	1.750E-03	.0813	2.170E-03	.1009	2.466E-03	.1146	2.108E-03	.0980
13.35	.258	630.62	1.856E-03	.0863	2.306E-03	.1072	2.624E-03	.1220	2.239E-03	.1041
13.72	.265	634.16	1.934E-03	.0899	2.405E-03	.1118	2.740E-03	.1273	2.335E-03	.1085
14.08	.272	64[illegible].31	2.071E-03	.0962	2.582E-03	.1200	2.945E-03	.1369	2.505E-03	.1164
14.45	.279	648.54	2.259E-03	.1050	2.826E-03	.1313	3.231E-03	.1501	2.741E-03	.1274
14.81	.286	655.20	2.416E-03	.1123	3.030E-03	.1408	3.471E-03	.1613	2.938E-03	.1365
15.17	.293	661.91	2.581E-03	.1200	3.246E-03	.1508	3.725E-03	.1731	3.146E-03	.1462
15.53	.300	668.39	2.775E-03	.1290	3.501E-03	.1627	4.027E-03	.1871	3.391E-03	.1576
15.89	.307	675.87	2.947E-03	.1369	3.727E-03	.1732	4.295E-03	.1996	3.609E-03	.1677
16.25	.314	68[illegible].61	3.074E-03	.1429	3.896E-03	.1811	4.497E-03	.2090	3.772E-03	.1753
16.60	.321	689.68	3.323E-03	.1544	4.228E-03	.1965	4.895E-03	.2275	4.091E-03	.1901
16.96	.328	695.19	3.477E-03	.1616	4.436E-03	.2062	5.145E-03	.2391	4.290E-03	.1994
17.31	.335	700.55	3.630E-03	.1687	4.642E-03	.2158	5.394E-03	.2507	4.488E-03	.2086

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
127	8	TILE INSERT	0.175	.010	.010	1.319E 06	1.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.6	1294	29.62	29.96	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0395	1.757	3795	3.511E-05	7.603E-08	1.753E 06	2.152E-02	66

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
18.792	2.523	17.375	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	706.50	3.802E-03	.1767	4.876E-03	.2264	5.678E-03	.2639	4.712E-03	.2190
18.01	.348	711.24	3.942E-03	.1832	5.067E-03	.2355	5.910E-03	.2747	4.894E-03	.2275
18.35	.355	715.42	4.066E-03	.1889	5.237E-03	.2434	6.118E-03	.2843	5.057E-03	.2350
18.70	.361	719.27	4.151E-03	.1929	5.355E-03	.2488	6.262E-03	.2910	5.170E-03	.2403
19.04	.368	723.97	4.325E-03	.2010	5.595E-03	.2600	6.557E-03	.3047	5.399E-03	.2509
19.38	.375	726.61	4.406E-03	.2048	5.707E-03	.2652	6.696E-03	.3112	5.507E-03	.2559
19.72	.381	727.69	4.439E-03	.2063	5.754E-03	.2674	6.753E-03	.3139	5.551E-03	.2580
20.06	.388	732.06	4.576E-03	.2127	5.945E-03	.2763	6.990E-03	.3249	5.733E-03	.2664
20.39	.394	735.95	4.731E-03	.2199	6.162E-03	.2864	7.260E-03	.3374	5.940E-03	.2761
20.73	.401	741.30	4.870E-03	.2264	6.359E-03	.2955	7.506E-03	.3488	6.128E-03	.2848
21.06	.407	745.18	4.997E-03	.2322	6.538E-03	.3039	7.730E-03	.3593	6.298E-03	.2927
21.39	.413	748.67	5.112E-03	.2376	6.702E-03	.3115	7.936E-03	.3688	6.454E-03	.2999
21.72	.420	748.31	5.100E-03	.2370	6.685E-03	.3107	7.915E-03	.3678	6.438E-03	.2992
22.05	.426	748.41	5.103E-03	.2372	6.689E-03	.3109	7.921E-03	.3681	6.442E-03	.2994
22.37	.432	750.37	5.168E-03	.2402	6.782E-03	.3152	8.038E-03	.3735	6.531E-03	.3035
22.69	.439	753.58	5.276E-03	.2452	6.937E-03	.3224	8.232E-03	.3826	6.677E-03	.3103
23.02	.445	754.15	5.295E-03	.2461	6.964E-03	.3237	8.267E-03	.3842	6.703E-03	.3115
23.34	.451	755.34	5.335E-03	.2480	7.022E-03	.3264	8.341E-03	.3876	6.758E-03	.3141
23.65	.457	757.65	5.414E-03	.2516	7.135E-03	.3316	8.484E-03	.3943	6.866E-03	.3191
23.97	.463	758.07	5.429E-03	.2523	7.156E-03	.3326	8.510E-03	.3955	6.886E-03	.3200
24.29	.469	756.61	5.379E-03	.2500	7.084E-03	.3292	8.419E-03	.3913	6.817E-03	.3168
24.60	.475	757.73	5.417E-03	.2518	7.140E-03	.3318	8.490E-03	.3945	6.870E-03	.3193

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
127	8	TILE INSERT	0.175	.010	.010	1.319E 06	1.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.6	1294	29.62	29.96	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0395	1.757	3795	3.511E-05	7.603E-08	1.753E 06	2.152E-02	66

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.792	2.523	17.375	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	76[illegible].49	5.512E-03	.2562	7.276E-03	.3382	8.663E-03	.4026	7.000E-03	.3253
25.22	.487	758.79	5.454E-03	.2535	7.192E-03	.3343	8.556E-03	.3976	6.920E-03	.3216
25.53	.493	75[illegible].07	5.429E-03	.2523	7.157E-03	.3326	8.511E-03	.3956	6.886E-03	.3200
25.83	.499	749.59	5.143E-03	.2390	6.747E-03	.3136	7.993E-03	.3715	6.497E-03	.3019
26.14	.505	625.71	1.752E-03	.0814	2.173E-03	.1010	2.469E-03	.1148	2.110E-03	.0981

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
127	8	TILE INSERT	0.175	.010	.010	1.319E 06	1.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.6	1294	29.62	29.96	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0395	1.757	3795	3.511E-05	7.603E-08	1.753E 06	2.152E-02	66

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.792	2.523	17.375	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.107	531.11	530.61	528.14	527.96	527.76	527.10	526.77	526.74	530.96	531.54
2.103	534.58	534.34	530.55	529.81	528.80	527.76	527.25	527.04	531.58	531.94
3.100	537.12	535.92	532.57	531.38	529.78	528.35	527.70	527.37	531.99	532.39
4.096	539.25	539.04	534.31	532.80	530.70	528.92	528.08	527.73	532.30	532.84
5.093	541.13	540.87	535.85	534.11	531.56	529.45	528.47	528.05	532.57	533.19
6.090	542.84	542.51	537.30	535.29	532.39	529.93	528.83	528.35	532.97	533.55
7.046	544.39	544.04	538.63	536.47	533.19	530.43	529.18	528.62	533.51	534.09
8.083	545.89	545.49	539.89	537.56	533.99	530.91	529.54	528.92	533.91	534.58
9.079	547.24	546.83	541.10	538.60	534.79	531.41	529.87	529.21	534.40	535.03
10.076	548.52	548.09	542.28	539.72	535.56	531.88	530.22	529.54	534.76	535.34
11.072	549.75	549.31	543.39	540.72	536.32	532.42	530.58	529.84	535.03	535.79
12.069	550.95	550.45	544.45	541.69	537.09	532.89	530.94	530.16	535.43	536.10
13.066	552.06	551.56	545.48	542.66	537.83	533.40	531.29	530.43	535.92	536.59
14.062	553.17	552.61	546.47	543.57	538.57	533.87	531.65	530.70	536.32	537.04
15.059	554.22	553.66	547.47	544.45	539.30	534.37	532.00	531.02	536.81	537.48
16.055	555.20	554.65	548.41	545.36	540.01	534.88	532.39	531.35	537.13	537.80
17.052	556.19	555.58	549.34	546.21	540.72	535.38	532.74	531.68	537.44	538.20
17.358	556.51	555.90	549.58	546.47	540.95	535.56	532.89	531.74	537.71	538.38
18.048	557.15	556.54	550.22	547.03	541.42	535.91	533.13	531.97	537.84	538.55
19.045	558.05	557.44	551.07	547.85	542.13	536.41	533.51	532.27	538.29	539.04
20.042	558.98	558.34	551.91	548.64	542.81	536.89	533.90	532.60	538.78	539.49

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
127	8	TILE INSERT	0.175	.010	.010	1.319E 06	1.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.6	1294	29.62	29.96	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0395	1.757	3795	3.511E-05	7.603E-08	1.753E 06	2.152E-02	66

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.792	2.523	17.375	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.038	559.85	559.21	552.76	549.43	543.51	537.42	534.28	532.92	539.13	539.89
22.035	560.69	560.05	553.57	550.31	544.83	537.95	534.70	533.28	539.49	540.20

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AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/08/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
127	B	TILE INSERT	0.175	.010	.010	1.319E 06	1.461E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.6	1294	29.62	29.96	30.00	.38	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0395	1.757	3795	3.511E-05	7.603E-08	1.753E 06	2.152E-02	66

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.792	2.523	17.375	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.532	1
14.318	2
14.501	3

NASA/RI OHAO
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75 PAGE 1
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
128	8	TILE INSERT	0.175	.010	.010	1.315E 06	1.456E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.8	1297	39.49	40.01	30.00	-9.49	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0395	1.758	3799	3.505E-05	7.620E-08	1.748E 06	2.153E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.751	2.537	20.367	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	567.93	4.828E-04	.0224	5.873E-04	.0273	6.585E-04	.0306	5.469E-04	.0254
8.15	.158	581.50	6.977E-04	.0324	8.521E-04	.0396	9.582E-04	.0445	7.924E-04	.0368
8.60	.166	595.08	9.240E-04	.0429	1.134E-03	.0527	1.279E-03	.0594	1.053E-03	.0489
9.05	.175	608.73	2.211E-03	.1027	2.777E-03	.1290	3.185E-03	.1479	2.555E-03	.1186
9.49	.183	730.90	4.017E-03	.1866	5.210E-03	.2420	6.120E-03	.2842	4.731E-03	.2197
9.93	.192	685.32	2.803E-03	.1302	3.557E-03	.1652	4.109E-03	.1909	3.258E-03	.1513
10.37	.200	713.19	3.526E-03	.1638	4.533E-03	.2105	5.288E-03	.2456	4.131E-03	.1919
10.81	.209	738.93	4.187E-03	.1945	5.449E-03	.2531	6.415E-03	.2979	4.942E-03	.2295
11.24	.217	754.03	4.700E-03	.2183	6.174E-03	.2868	7.324E-03	.3401	5.578E-03	.2591
11.67	.226	773.01	5.301E-03	.2462	7.044E-03	.3272	8.431E-03	.3916	6.335E-03	.2942
12.10	.234	785.32	5.748E-03	.2670	7.705E-03	.3579	9.286E-03	.4313	6.905E-03	.3207
12.52	.242	794.62	6.040E-03	.2805	8.142E-03	.3781	9.857E-03	.4578	7.279E-03	.3381
12.94	.250	801.87	6.303E-03	.2927	8.540E-03	.3966	1.038E-02	.4822	7.619E-03	.3539
13.36	.258	805.39	6.434E-03	.2988	8.739E-03	.4059	1.065E-02	.4945	7.789E-03	.3617
13.78	.266	808.79	6.563E-03	.3048	8.937E-03	.4151	1.091E-02	.5067	7.956E-03	.3695
14.19	.274	814.35	6.773E-03	.3145	9.261E-03	.4301	1.135E-02	.5269	8.231E-03	.3823
14.60	.282	817.04	6.875E-03	.3193	9.421E-03	.4375	1.156E-02	.5369	8.366E-03	.3885
15.01	.290	816.09	6.839E-03	.3176	9.364E-03	.4349	1.148E-02	.5334	8.318E-03	.3863
15.41	.298	816.61	6.859E-03	.3186	9.396E-03	.4364	1.153E-02	.5354	8.345E-03	.3876
15.81	.306	818.00	6.912E-03	.3210	9.478E-03	.4402	1.164E-02	.5406	8.414E-03	.3908
16.21	.313	818.17	6.919E-03	.3213	9.489E-03	.4407	1.165E-02	.5412	8.423E-03	.3912

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
128	4 8	TILE INSERT	0.175	.010	.010	1.315E 06	1.456E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.8	1297	39.49	40.01	30.00	-9.49	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0395	1.758	3799	3.505E-05	7.620E-08	1.748E 06	2.153E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
21.791	2.537	20.367	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	821.48	7.046E-03	.3273	9.689E-03	.4500	1.192E-02	.5538	8.591E-03	.3990
17.00	.329	823.45	7.123E-03	.3308	9.809E-03	.4556	1.209E-02	.5614	8.692E-03	.4037
17.39	.336	821.93	7.064E-03	.3281	9.716E-03	.4513	1.196E-02	.5556	8.615E-03	.4001
17.77	.344	822.56	7.089E-03	.3292	9.755E-03	.4531	1.202E-02	.5580	8.647E-03	.4016
18.16	.351	822.60	7.090E-03	.3293	9.758E-03	.4532	1.202E-02	.5582	8.649E-03	.4017
18.54	.358	821.38	7.043E-03	.3271	9.683E-03	.4497	1.192E-02	.5535	8.587E-03	.3988
18.92	.366	821.38	7.043E-03	.3271	9.684E-03	.4498	1.192E-02	.5535	8.587E-03	.3988
19.29	.373	822.90	7.102E-03	.3299	9.777E-03	.4541	1.204E-02	.5594	8.665E-03	.4024
19.66	.380	821.29	7.036E-03	.3268	9.673E-03	.4492	1.190E-02	.5528	8.578E-03	.3984
20.03	.387	821.63	7.053E-03	.3276	9.699E-03	.4505	1.194E-02	.5545	8.600E-03	.3994
20.40	.394	824.15	7.151E-03	.3321	9.854E-03	.4576	1.215E-02	.5643	8.730E-03	.4054
20.76	.401	825.94	7.221E-03	.3354	9.965E-03	.4628	1.230E-02	.5713	8.823E-03	.4098
21.12	.408	827.54	7.284E-03	.3383	1.006E-02	.4674	1.244E-02	.5777	8.906E-03	.4136
21.48	.415	826.98	7.262E-03	.3373	1.003E-02	.4658	1.239E-02	.5755	8.877E-03	.4123
21.84	.422	823.35	7.120E-03	.3307	9.805E-03	.4554	1.208E-02	.5612	8.689E-03	.4035
22.19	.429	823.03	7.108E-03	.3301	9.786E-03	.4545	1.206E-02	.5599	8.673E-03	.4028
22.54	.436	825.76	7.214E-03	.3351	9.954E-03	.4623	1.229E-02	.5706	8.814E-03	.4093
22.88	.442	825.63	7.208E-03	.3348	9.944E-03	.4618	1.227E-02	.5700	8.806E-03	.4090
23.23	.449	823.80	7.138E-03	.3315	9.833E-03	.4567	1.212E-02	.5630	8.713E-03	.4047
23.57	.456	825.44	7.203E-03	.3345	9.935E-03	.4614	1.226E-02	.5694	8.798E-03	.4086
23.91	.462	825.83	7.218E-03	.3352	9.959E-03	.4625	1.229E-02	.5710	8.818E-03	.4096
24.24	.469	823.16	7.114E-03	.3304	9.795E-03	.4549	1.207E-02	.5605	8.680E-03	.4032

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
128	8	TILE INSERT	0.175	.010	.010	1.315E 06	1.456E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.8	1297	39.49	40.01	30.00	-9.49	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0395	1.758	3799	3.505E-05	7.620E-08	1.748E 06	2.153E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.791	2.537	20.367	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	823.47	7.126E-03	.3310	9.814E-03	.4558	1.209E-02	.5617	8.696E-03	.4039
24.90	.481	825.97	7.263E-03	.3373	1.003E-02	.4658	1.239E-02	.5755	8.878E-03	.4123
25.23	.488	824.14	7.152E-03	.3322	9.855E-03	.4577	1.215E-02	.5644	8.731E-03	.4055
25.55	.494	821.46	7.048E-03	.3274	9.691E-03	.4501	1.193E-02	.5540	8.594E-03	.3991
25.87	.500	797.82	6.159E-03	.2860	8.320E-03	.3864	1.009E-02	.4687	7.432E-03	.3451

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
128	8	TILE INSERT	0.175	.010	.010	1.315E 06	1.456E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.8	1297	39.49	40.01	30.00	-9.49	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0395	1.758	3799	3.505E-05	7.620E-08	1.748E 06	2.153E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.791	2.537	20.367	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.113	532.98	532.89	530.76	530.70	530.67	529.96	529.63	529.66	534.31	535.43
2.109	536.32	536.71	533.37	532.80	531.91	530.79	530.22	530.02	535.43	536.99
3.106	538.80	539.29	535.44	534.55	533.07	531.53	530.79	530.43	536.99	538.64
4.102	540.84	541.31	537.18	536.03	534.11	532.21	531.32	530.91	538.42	540.20
5.099	542.63	543.10	538.77	537.39	535.08	532.83	531.80	531.32	539.71	541.63
6.096	544.28	544.75	540.22	538.63	536.00	533.46	532.24	531.71	541.14	543.05
7.092	545.83	546.24	541.54	539.86	536.86	534.05	532.69	532.09	542.61	544.61
8.089	547.27	547.65	542.84	540.98	537.71	534.61	533.13	532.45	544.12	546.16
9.085	548.64	548.99	544.04	542.10	538.57	535.17	533.54	532.83	545.63	547.67
10.082	549.90	550.25	545.21	543.16	539.39	535.73	533.96	533.22	547.00	549.13
11.078	551.10	551.45	546.33	544.19	540.22	536.27	534.37	533.60	548.34	550.42
12.075	552.32	552.61	547.41	545.19	540.98	536.86	534.82	533.96	549.71	551.88
13.072	553.46	553.72	548.49	546.15	541.78	537.42	535.23	534.31	551.13	553.29
14.068	554.56	554.80	549.46	547.09	542.57	537.95	535.64	534.67	552.59	554.75
15.065	555.61	555.84	550.48	548.03	543.34	538.48	536.06	535.02	553.96	556.17
16.061	556.63	556.86	551.45	548.90	544.10	539.04	536.47	535.41	555.28	557.58
17.058	557.65	557.82	552.38	549.81	544.86	539.60	536.89	535.79	556.61	558.82
18.054	558.60	558.78	553.31	550.66	545.60	540.16	537.36	536.18	557.89	560.09
19.051	559.56	559.71	554.19	551.50	546.33	540.75	537.74	536.53	559.21	561.50
20.048	560.43	560.58	555.03	552.35	547.03	541.25	538.18	536.89	560.62	562.91
20.349	560.72	560.86	555.32	552.58	547.27	541.42	538.33	537.00	560.97	563.26

NASA/RI 0H69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
128	8	TILE INSERT	0.175	.010	.010	1.315E 06	1.456E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.8	1297	39.49	40.01	30.00	-9.49	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0395	1.759	3799	3.505E-05	7.620E-08	1.748E 06	2.153E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
21.791	2.537	20.367	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.044	561.36	561.47	555.87	553.17	547.76	541.81	538.63	537.27	562.08	564.23
22.041	562.23	562.34	556.75	553.95	548.47	542.37	539.07	537.65	563.35	565.60
23.037	563.09	563.21	557.59	554.74	549.20	542.92	539.51	538.07	564.36	566.83
24.034	563.93	564.02	558.37	555.52	549.87	543.51	539.95	538.45	565.77	568.10
25.030	564.74	564.88	559.16	556.28	550.57	544.04	540.39	538.83	567.13	569.33
26.027	565.55	565.63	559.94	557.01	551.24	544.60	540.87	539.22	568.54	570.78

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
128	8	TILE INSERT	0.175	.010	.010	1.315E 06	1.456E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	376.8	1297	39.49	40.01	30.00	-9.49	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0395	1.758	3799	3.505E-05	7.620E-08	1.748E 06	2.153E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.791	2.537	20.367	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.450	1
10.603	2
20.907	3

NASA/RI OHAO
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/08/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
129	8	TILE INSERT	0.175	.010	.010	1.484E 06	1.643E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.9	1294	39.43	40.02	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0442	1.972	3795	3.940E-05	7.583E-08	1.972E 06	2.279E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.207	2.546	16.777	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	562.68	4.766E-04	.0209	5.790E-04	.0254	6.488E-04	.0285	5.395E-04	.0237
8.15	.158	576.27	7.102E-04	.0312	8.665E-04	.0380	9.736E-04	.0427	8.060E-04	.0354
8.60	.166	589.93	9.592E-04	.0421	1.175E-03	.0516	1.324E-03	.0581	1.091E-03	.0479
9.05	.175	615.10	1.455E-03	.0638	1.797E-03	.0789	2.037E-03	.0894	1.664E-03	.0730
9.49	.183	732.33	4.537E-03	.1991	5.896E-03	.2587	6.934E-03	.3042	5.350E-03	.2347
9.93	.192	688.94	3.243E-03	.1423	4.126E-03	.1810	4.776E-03	.2095	3.776E-03	.1657
10.37	.200	721.80	4.208E-03	.1846	5.436E-03	.2386	6.369E-03	.2794	4.545E-03	.2170
10.81	.209	746.52	4.999E-03	.2193	6.546E-03	.2872	7.745E-03	.3398	5.521E-03	.2598
11.24	.217	761.12	5.498E-03	.2411	7.259E-03	.3185	8.646E-03	.3793	6.543E-03	.2871
11.67	.226	777.14	6.072E-03	.2664	8.100E-03	.3554	9.725E-03	.4267	7.272E-03	.3191
12.10	.234	787.96	6.481E-03	.2844	8.709E-03	.3821	1.052E-02	.4614	7.795E-03	.3420
12.52	.242	795.18	6.764E-03	.2968	9.135E-03	.4008	1.108E-02	.4859	8.160E-03	.3580
12.94	.250	799.96	6.957E-03	.3053	9.427E-03	.4136	1.146E-02	.5029	8.410E-03	.3690
13.36	.258	804.21	7.132E-03	.3129	9.694E-03	.4253	1.182E-02	.5184	8.636E-03	.3789
13.78	.266	804.95	7.163E-03	.3143	9.741E-03	.4274	1.188E-02	.5212	8.677E-03	.3807
14.19	.274	809.39	7.350E-03	.3225	1.003E-02	.4400	1.226E-02	.5381	8.921E-03	.3914
14.60	.282	813.43	7.519E-03	.3299	1.029E-02	.4515	1.262E-02	.5536	9.143E-03	.4011
15.01	.290	813.78	7.534E-03	.3306	1.031E-02	.4526	1.265E-02	.5549	9.162E-03	.4020
15.41	.298	813.27	7.513E-03	.3296	1.028E-02	.4511	1.260E-02	.5530	9.134E-03	.4008
15.81	.306	814.35	7.559E-03	.3316	1.035E-02	.4542	1.270E-02	.5572	9.194E-03	.4034
16.21	.313	814.58	7.569E-03	.3321	1.037E-02	.4549	1.272E-02	.5581	9.207E-03	.4040

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
129	8	TILE INSERT	0.175	.010	.010	1.484E 06	1.643E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.9	1294	39.43	40.02	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0442	1.972	3795	3.540E-05	7.583E-08	1.972E 06	2.279E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.207	2.546	16.777	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
15.61	.321	814.99	7.586E-03	.3328	1.039E-02	.4561	1.276E-02	.5597	9.230E-03	.4050
17.00	.329	819.17	7.764E-03	.3406	1.067E-02	.4683	1.313E-02	.5763	9.464E-03	.4152
17.39	.336	819.57	7.781E-03	.3414	1.070E-02	.4695	1.317E-02	.5779	9.487E-03	.4163
17.77	.344	819.76	7.747E-03	.3399	1.065E-02	.4671	1.310E-02	.5747	9.441E-03	.4142
18.16	.351	819.56	7.781E-03	.3414	1.070E-02	.4695	1.317E-02	.5779	9.487E-03	.4162
18.54	.358	819.12	7.763E-03	.3406	1.067E-02	.4682	1.313E-02	.5762	9.463E-03	.4152
18.92	.366	818.58	7.740E-03	.3396	1.064E-02	.4666	1.308E-02	.5740	9.432E-03	.4138
19.29	.373	819.82	7.793E-03	.3419	1.072E-02	.4703	1.320E-02	.5790	9.502E-03	.4169
19.66	.380	818.88	7.753E-03	.3402	1.066E-02	.4675	1.311E-02	.5752	9.449E-03	.4146
20.03	.387	818.01	7.716E-03	.3385	1.060E-02	.4650	1.303E-02	.5717	9.401E-03	.4125
20.40	.394	823.77	7.834E-03	.3437	1.078E-02	.4731	1.328E-02	.5828	9.557E-03	.4193
20.76	.401	822.31	7.900E-03	.3466	1.089E-02	.4777	1.343E-02	.5891	9.645E-03	.4232
21.12	.408	823.77	7.964E-03	.3494	1.099E-02	.4821	1.356E-02	.5951	9.729E-03	.4268
21.48	.415	824.91	8.013E-03	.3516	1.107E-02	.4856	1.367E-02	.5999	9.795E-03	.4298
21.84	.422	823.03	7.841E-03	.3440	1.079E-02	.4736	1.330E-02	.5835	9.566E-03	.4197
22.19	.429	819.71	7.789E-03	.3417	1.071E-02	.4700	1.319E-02	.5786	9.497E-03	.4167
22.54	.436	821.58	7.870E-03	.3453	1.084E-02	.4756	1.336E-02	.5862	9.604E-03	.4214
22.88	.442	822.98	7.930E-03	.3479	1.094E-02	.4798	1.349E-02	.5919	9.684E-03	.4249
23.23	.449	820.76	7.834E-03	.3437	1.078E-02	.4732	1.328E-02	.5829	9.557E-03	.4193
23.57	.456	821.72	7.876E-03	.3456	1.085E-02	.4760	1.337E-02	.5868	9.612E-03	.4218
23.91	.462	823.35	7.947E-03	.3487	1.096E-02	.4809	1.353E-02	.5935	9.706E-03	.4259
24.24	.469	821.38	7.862E-03	.3449	1.083E-02	.4750	1.334E-02	.5854	9.593E-03	.4209

NASA/RI OHAO
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
129	8	TILE INSERT	0.175	.010	.010	1.484E 06	1.643E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.9	1294	39.43	40.02	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0442	1.972	3795	3.940E-05	7.583E-08	1.972E 06	2.279E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
18.207	2.546	16.777	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	819.50	7.781E-03	.3414	1.070E-02	.4695	1.317E-02	.5779	9.487E-03	.4163
24.90	.481	822.57	7.913E-03	.3472	1.091E-02	.4786	1.345E-02	.5903	9.662E-03	.4239
25.23	.488	823.30	7.945E-03	.3486	1.096E-02	.4808	1.352E-02	.5933	9.704E-03	.4258
25.55	.494	821.10	7.850E-03	.3444	1.081E-02	.4742	1.332E-02	.5843	9.578E-03	.4202
25.87	.500	816.64	7.660E-03	.3361	1.051E-02	.4611	1.291E-02	.5665	9.326E-03	.4092

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
129	8	TILE INSERT	0.175	.010	.010	1.484E 06	1.643E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.9	1294	39.43	40.02	30.00	-[illegible].43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0442	1.972	3795	3.540E-05	7.583E-08	1.972E 06	2.279E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.207	2.546	16.777	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.117	525.00	525.88	523.58	523.46	523.40	522.75	522.48	522.57	540.11	541.54
2.113	529.54	529.96	526.35	525.73	524.78	523.61	523.05	522.90	541.63	543.18
3.110	532.12	532.63	528.59	527.55	526.09	524.39	523.67	523.40	543.23	545.01
4.107	534.31	534.82	530.43	529.15	527.10	525.10	524.21	523.85	544.70	546.78
5.103	536.24	536.74	532.12	530.58	528.14	525.82	524.72	524.30	546.29	548.34
6.100	538.01	538.48	533.63	531.94	529.12	526.45	525.19	524.69	547.89	550.06
7.096	539.66	540.07	535.08	533.22	530.07	527.07	525.70	525.10	549.58	551.83
8.093	541.16	541.54	536.44	534.43	530.97	527.70	526.15	525.52	551.22	553.60
9.089	542.63	542.94	537.74	535.59	531.88	528.29	526.59	525.94	552.68	555.02
10.086	543.98	544.33	538.98	536.71	532.74	528.89	527.07	526.36	554.13	556.52
11.083	545.30	545.62	540.16	537.83	533.60	529.48	527.49	526.74	555.77	558.11
12.079	546.53	546.86	541.31	538.86	534.46	530.04	527.93	527.10	557.40	559.74
13.076	547.76	548.03	542.45	539.92	535.32	530.67	528.38	527.49	558.95	561.33
14.072	548.93	549.14	543.54	540.92	536.15	531.26	528.86	527.90	560.36	562.82
15.069	550.02	550.29	544.60	541.90	536.97	531.86	529.30	528.29	561.81	564.23
16.065	551.12	551.36	545.62	542.87	537.80	532.45	529.75	528.68	563.26	565.73
16.760	551.88	552.20	546.30	543.54	538.33	532.86	530.04	528.95	564.50	566.96
17.062	552.20	552.41	546.62	543.81	538.57	533.04	530.22	529.09	564.85	567.31
18.059	553.22	553.40	547.59	544.75	539.36	533.63	530.64	529.48	566.43	568.89
19.055	554.22	554.42	548.52	545.62	540.13	534.23	531.11	529.90	567.88	570.29
20.052	555.18	555.35	549.46	546.50	540.92	534.82	531.59	530.31	569.20	571.70

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
129	8	TILE INSERT	0.175	.010	.010	1.484E 06	1.643E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.9	1294	39.43	40.02	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	RREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0442	1.972	3795	3.540E-05	7.583E-08	1.972E 06	2.279E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.207	2.546	16.777	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.048	556.14	556.25	550.37	547.38	541.69	535.41	532.09	530.70	570.56	573.06
22.045	557.09	557.19	551.30	548.29	542.31	536.00	532.57	531.11	572.09	574.63

C-

NASA/RI OH62
V41B-F9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/08/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
129	8	TILE INSERT	0.175	.010	.010	1.484E 06	1.643E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	424.9	1294	39.43	40.02	30.00	-9.43	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.2	.0442	1.972	3795	3.540E-05	7.583E-08	1.972E 06	2.279E-02	72

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
18.207	2.546	16.777	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
6.241	1
10.785	2
17.606	3

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
130	8	TILE INSERT	0.175	.010	.010	1.490E 06	1.650E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.0	1297	29.60	29.99	30.00	.40	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0446	1.986	3799	3.960E-05	7.600E-08	1.980E 06	2.288E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.896	2.523	24.479	1000

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	604.93	9.885E-04	.0432	1.217E-03	.0532	1.375E-03	.0601	1.183E-03	.0517
10.33	.200	626.69	1.358E-03	.0594	1.684E-03	.0736	1.914E-03	.0836	1.636E-03	.0715
10.71	.207	635.90	1.524E-03	.0666	1.896E-03	.0829	2.160E-03	.0944	1.841E-03	.0804
11.10	.214	646.42	1.721E-03	.0752	2.150E-03	.0939	2.456E-03	.1073	2.085E-03	.0911
11.48	.222	667.74	2.004E-03	.0876	2.517E-03	.1100	2.887E-03	.1262	2.440E-03	.1066
11.85	.229	681.12	2.447E-03	.1070	3.101E-03	.1355	3.578E-03	.1564	3.001E-03	.1312
12.23	.236	693.87	2.739E-03	.1197	3.490E-03	.1525	4.044E-03	.1767	3.375E-03	.1475
12.60	.244	711.03	3.149E-03	.1376	4.044E-03	.1767	4.715E-03	.2060	3.907E-03	.1707
12.98	.251	721.49	3.409E-03	.1490	4.401E-03	.1923	5.151E-03	.2251	4.248E-03	.1856
13.35	.258	733.69	3.723E-03	.1627	4.836E-03	.2114	5.687E-03	.2485	4.663E-03	.2038
13.72	.265	745.42	4.063E-03	.1775	5.315E-03	.2323	6.284E-03	.2746	5.119E-03	.2237
14.08	.272	754.32	4.422E-03	.1932	5.828E-03	.2547	6.930E-03	.3028	5.607E-03	.2450
14.45	.279	769.72	4.723E-03	.2064	6.265E-03	.2738	7.486E-03	.3271	6.021E-03	.2631
14.81	.286	776.41	4.923E-03	.2151	6.558E-03	.2866	7.863E-03	.3436	6.298E-03	.2752
15.17	.293	781.98	5.094E-03	.2226	6.809E-03	.2976	8.188E-03	.3578	6.536E-03	.2856
15.53	.300	786.53	5.236E-03	.2288	7.020E-03	.3068	8.463E-03	.3698	6.736E-03	.2943
15.89	.307	790.46	5.361E-03	.2343	7.207E-03	.3149	8.706E-03	.3805	6.912E-03	.3020
16.25	.314	791.86	5.406E-03	.2362	7.275E-03	.3179	8.795E-03	.3843	6.976E-03	.3048
16.60	.321	797.06	5.575E-03	.2436	7.529E-03	.3290	9.129E-03	.3989	7.216E-03	.3153
16.96	.328	803.22	5.781E-03	.2526	7.842E-03	.3427	9.542E-03	.4170	7.510E-03	.3282
17.31	.335	805.23	5.850E-03	.2556	7.946E-03	.3472	9.681E-03	.4231	7.608E-03	.3325

NASA/RI 0H60
V41d-E9A

AEDC (ARO.INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
130	8	TILE INSERT	0.175	.010	.010	1.490E 06	1.650E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.0	1297	29.60	29.99	30.00	.40	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0446	1.986	3799	3.960E-05	7.600E-08	1.980E 06	2.288E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.856	2.523	24.479	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	807.00	5.910E-03	.2583	8.039E-03	.3513	9.805E-03	.4285	7.695E-03	.3363
18.01	.348	808.15	5.950E-03	.2600	8.100E-03	.3540	9.886E-03	.4320	7.753E-03	.3388
18.35	.355	809.16	5.985E-03	.2616	8.154E-03	.3563	9.958E-03	.4352	7.803E-03	.3410
18.70	.361	809.88	6.011E-03	.2627	8.193E-03	.3580	1.001E-02	.4374	7.840E-03	.3426
19.04	.368	811.78	6.076E-03	.2655	8.294E-03	.3624	1.015E-02	.4433	7.934E-03	.3467
19.38	.375	811.93	6.081E-03	.2657	8.302E-03	.3628	1.016E-02	.4438	7.942E-03	.3471
19.72	.381	811.27	6.024E-03	.2632	8.213E-03	.3589	1.004E-02	.4386	7.859E-03	.3434
20.06	.388	810.88	6.045E-03	.2642	8.246E-03	.3603	1.008E-02	.4405	7.890E-03	.3448
20.39	.394	811.62	6.070E-03	.2653	8.285E-03	.3621	1.013E-02	.4429	7.927E-03	.3464
20.73	.401	814.42	6.167E-03	.2695	8.435E-03	.3686	1.034E-02	.4517	8.067E-03	.3525
21.06	.407	816.00	6.222E-03	.2719	8.520E-03	.3723	1.045E-02	.4567	8.147E-03	.3560
21.39	.413	816.66	6.245E-03	.2729	8.556E-03	.3739	1.050E-02	.4588	8.181E-03	.3575
21.72	.420	813.61	6.139E-03	.2683	8.392E-03	.3667	1.028E-02	.4491	8.026E-03	.3508
22.05	.426	812.06	6.086E-03	.2659	8.309E-03	.3631	1.017E-02	.4442	7.949E-03	.3474
22.37	.432	811.69	6.073E-03	.2654	8.289E-03	.3622	1.014E-02	.4431	7.931E-03	.3466
22.69	.439	813.14	6.123E-03	.2676	8.367E-03	.3656	1.024E-02	.4477	8.003E-03	.3497
23.02	.445	812.46	6.100E-03	.2666	8.331E-03	.3640	1.020E-02	.4455	7.969E-03	.3482
23.34	.451	811.97	6.083E-03	.2658	8.305E-03	.3629	1.016E-02	.4440	7.945E-03	.3472
23.65	.457	814.00	6.153E-03	.2689	8.413E-03	.3677	1.031E-02	.4504	8.047E-03	.3516
23.97	.463	814.51	6.171E-03	.2697	8.441E-03	.3689	1.034E-02	.4520	8.073E-03	.3528
24.29	.469	812.32	6.095E-03	.2664	8.324E-03	.3637	1.019E-02	.4451	7.963E-03	.3480
24.60	.475	811.97	6.083E-03	.2658	8.305E-03	.3629	1.016E-02	.4440	7.945E-03	.3472

NASA/RI OH69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/08/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
130	8	TILE INSERT	0.175	.010	.010	1.490E 06	1.650E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.0	1297	29.60	29.99	30.00	.40	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0446	1.986	3799	3.960E-05	7.600E-08	1.980E 06	2.288E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.856	2.523	24.479	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	814.34	6.165E-03	.2694	8.432E-03	.3685	1.033E-02	.4515	8.064E-03	.3524
25.22	.487	811.41	6.064E-03	.2650	8.276E-03	.3617	1.012E-02	.4423	7.918E-03	.3460
25.53	.493	808.81	5.968E-03	.2608	8.127E-03	.3552	9.922E-03	.4336	7.778E-03	.3399
25.83	.499	806.29	5.685E-03	.2484	7.695E-03	.3362	9.347E-03	.4085	7.371E-03	.3221
26.14	.505	669.13	2.184E-03	.0955	2.753E-03	.1203	3.166E-03	.1383	2.667E-03	.1166

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
130	8	TILE INSERT	0.175	.010	.010	1.490E 06	1.650E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.0	1297	29.60	29.99	30.00	.40	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0446	1.986	3799	3.960E-05	7.600E-08	1.980E 06	2.288E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.896	2.523	24.479	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.107	530.94	530.37	527.73	527.49	527.19	526.57	526.21	526.21	543.01	543.41
2.103	534.64	534.34	530.34	529.42	528.38	527.25	526.68	526.51	543.45	543.85
3.100	537.33	537.09	532.45	531.11	529.39	527.87	527.16	526.83	543.98	544.61
4.096	539.60	539.33	534.28	532.63	530.37	528.44	527.68	527.16	544.70	545.23
5.093	541.63	541.31	535.94	534.02	531.29	529.00	527.96	527.52	545.27	545.98
6.090	543.45	543.07	537.51	535.32	532.21	529.57	528.38	527.85	545.63	546.34
7.086	545.13	544.75	538.95	536.59	533.07	530.10	528.77	528.20	546.16	547.00
8.083	546.71	546.24	540.31	537.77	533.93	530.61	529.15	528.50	546.74	547.63
9.079	548.14	547.68	541.57	538.92	534.76	531.11	529.51	528.80	547.45	548.25
10.076	549.52	549.05	542.81	540.04	535.59	531.65	529.90	529.12	548.02	548.82
11.072	550.83	550.31	544.01	541.10	536.41	532.18	530.25	529.48	548.51	549.35
12.069	552.12	551.56	545.19	542.16	537.24	532.74	530.67	529.81	549.00	549.93
13.066	553.31	552.73	546.27	543.16	538.01	533.25	531.05	530.10	549.71	550.51
14.062	554.45	553.87	547.32	544.13	538.80	533.78	531.41	530.40	550.24	551.22
15.059	555.58	554.97	548.35	545.10	539.57	534.34	531.80	530.73	550.86	551.70
16.055	556.63	556.02	549.37	546.04	540.34	534.85	532.21	531.11	551.30	552.23
17.052	557.68	557.04	550.37	546.94	541.10	535.41	532.60	531.44	551.79	552.72
18.048	558.69	558.02	551.30	547.85	541.87	535.94	532.98	531.77	552.37	553.29
19.045	559.68	559.01	552.23	548.73	542.60	536.47	533.40	532.09	553.03	553.91
20.042	560.63	559.94	553.14	549.58	543.34	537.00	533.81	532.45	553.60	554.58
21.038	561.53	560.86	554.01	550.39	544.07	537.56	534.23	532.80	554.09	555.06

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
130	8	TILE INSERT	0.175	.010	.010	1.490E 06	1.650E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.0	1297	29.60	29.99	30.00	.40	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0446	1.986	3799	3.960E-05	7.600E-08	1.980E 06	2.288E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
25.896	2.523	24.479	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
22.035	562.49	561.76	554.91	551.24	544.80	538.13	534.67	533.16	554.62	555.59
23.031	563.35	562.63	555.76	552.06	545.51	538.66	535.05	533.51	555.06	556.08
24.028	564.22	563.50	556.57	552.85	546.18	539.19	535.50	533.84	555.73	556.65
24.462	564.57	563.84	556.85	553.20	546.47	539.42	535.67	533.99	555.90	556.92
25.024	565.08	564.31	557.38	553.60	546.89	539.72	535.91	534.20	556.34	557.27
26.021	565.89	565.11	558.17	554.38	547.56	540.25	536.35	534.61	556.79	557.84
27.018	566.70	565.92	558.95	555.15	548.23	540.81	536.77	534.96	557.23	558.24
28.014	567.51	566.76	559.73	555.87	548.90	541.37	537.21	535.32	557.76	558.82
29.011	568.29	567.51	560.49	556.60	549.55	541.90	537.62	535.67	558.37	559.43
30.007	569.06	568.26	561.21	557.33	550.22	542.40	538.07	536.06	558.99	560.01
31.004	569.81	569.01	561.96	558.02	550.86	542.92	538.51	536.47	559.48	560.49

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
130	8	TILE INSERT	0.175	.010	.010	1.490E 06	1.650E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	428.0	1297	29.60	29.99	30.00	.40	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0446	1.986	3799	3.960E-05	7.600E-08	1.980E 06	2.288E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
25.896	2.523	24.479	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
5.344	1
11.758	2
25.399	3

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL H

12/08/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
131	8	TILE INSERT	0.175	.010	.010	1.681E 06	1.861E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.2	1312	29.57	30.01	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.5	.0511	2.279	3821	4.493E-05	7.687E-08	2.233E 06	2.456E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.141	2.624	18.668	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	589.41	8.035E-04	.0327	9.818E-04	.0400	1.104E-03	.0450	9.554E-04	.0389
10.33	.200	641.66	1.792E-03	.0730	2.229E-03	.0907	2.538E-03	.1033	2.163E-03	.0881
10.71	.207	67[illegible].65	2.445E-03	.0995	3.074E-03	.1252	3.528E-03	.1436	2.979E-03	.1213
11.10	.214	693.79	3.025E-03	.1231	3.840E-03	.1563	4.438E-03	.1807	3.715E-03	.1512
11.48	.222	71[illegible].04	3.674E-03	.1496	4.716E-03	.1920	5.496E-03	.2237	4.555E-03	.1855
11.85	.229	733.69	4.264E-03	.1736	5.530E-03	.2251	6.494E-03	.2644	5.333E-03	.2171
12.23	.236	757.01	4.804E-03	.1874	6.007E-03	.2445	7.086E-03	.2885	5.787E-03	.2356
12.60	.244	762.63	4.997E-03	.2034	6.565E-03	.2673	7.738E-03	.3171	6.318E-03	.2572
12.98	.251	769.28	5.211E-03	.2122	6.874E-03	.2798	8.178E-03	.3329	6.611E-03	.2691
13.35	.258	777.68	5.490E-03	.2235	7.277E-03	.2963	8.693E-03	.3539	6.994E-03	.2847
13.72	.265	784.58	5.724E-03	.2330	7.621E-03	.3103	9.135E-03	.3719	7.319E-03	.2980
14.08	.272	791.54	5.968E-03	.2430	7.981E-03	.3249	9.600E-03	.3908	7.659E-03	.3118
14.45	.279	795.98	6.164E-03	.2509	8.272E-03	.3368	9.978E-03	.4062	7.934E-03	.3230
14.81	.286	80[illegible].26	6.284E-03	.2558	8.451E-03	.3441	1.021E-02	.4158	8.103E-03	.3299
15.17	.293	801.13	6.316E-03	.2571	8.500E-03	.3460	1.028E-02	.4184	8.149E-03	.3318
15.53	.300	802.55	6.369E-03	.2593	8.579E-03	.3493	1.038E-02	.4226	8.224E-03	.3348
15.89	.307	804.12	6.428E-03	.2617	8.668E-03	.3529	1.050E-02	.4274	8.307E-03	.3382
16.25	.314	804.37	6.437E-03	.2620	8.682E-03	.3534	1.052E-02	.4281	8.320E-03	.3387
16.60	.321	807.64	6.561E-03	.2671	8.869E-03	.3611	1.076E-02	.4381	8.497E-03	.3459
16.96	.328	812.03	6.727E-03	.2739	9.123E-03	.3714	1.110E-02	.4518	8.735E-03	.3556
17.31	.335	812.63	6.750E-03	.2748	9.157E-03	.3728	1.114E-02	.4537	8.768E-03	.3570

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V41H-E4A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
131	8	TILE INSERT	0.175	.010	.010	1.681E 06	1.861E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.2	1312	29.57	30.01	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.5	.0511	2.279	3821	4.493E-05	7.687E-08	2.233E 06	2.456E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.141	2.624	18.668	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	R13.54	6.785E-03	.2762	9.210E-03	.3750	1.121E-02	.4566	8.818E-03	.3590
18.01	.348	R14.04	6.865E-03	.2770	9.241E-03	.3762	1.126E-02	.4582	8.846E-03	.3601
18.35	.355	R13.84	6.796E-03	.2767	9.228E-03	.3757	1.124E-02	.4575	8.834E-03	.3597
18.70	.361	R13.20	6.772E-03	.2757	9.191E-03	.3742	1.119E-02	.4555	8.800E-03	.3583
19.04	.368	R14.64	6.827E-03	.2779	9.275E-03	.3776	1.130E-02	.4601	8.879E-03	.3615
19.38	.375	R15.15	6.885E-03	.2803	9.364E-03	.3812	1.142E-02	.4649	8.962E-03	.3649
19.72	.381	R14.82	6.834E-03	.2782	9.286E-03	.3781	1.132E-02	.4607	8.884E-03	.3619
20.06	.388	R14.39	6.818E-03	.2776	9.260E-03	.3770	1.128E-02	.4593	8.865E-03	.3609
20.39	.394	R15.58	6.902E-03	.2810	9.390E-03	.3823	1.145E-02	.4663	8.987E-03	.3659
20.73	.401	R15.52	6.976E-03	.2840	9.505E-03	.3870	1.161E-02	.4726	9.094E-03	.3702
21.06	.407	R19.19	7.002E-03	.2851	9.545E-03	.3886	1.166E-02	.4748	9.132E-03	.3718
21.39	.413	R13.92	7.031E-03	.2862	9.589E-03	.3904	1.172E-02	.4772	9.173E-03	.3734
21.72	.420	R17.98	6.956E-03	.2832	9.473E-03	.3857	1.157E-02	.4709	9.065E-03	.3690
22.05	.426	R16.66	6.898E-03	.2808	9.384E-03	.3820	1.145E-02	.4660	8.981E-03	.3656
22.37	.432	R15.97	6.879E-03	.2801	9.355E-03	.3808	1.141E-02	.4644	8.953E-03	.3645
22.69	.439	R16.72	6.908E-03	.2812	9.399E-03	.3826	1.147E-02	.4668	8.995E-03	.3662
23.02	.445	R16.40	6.896E-03	.2807	9.380E-03	.3819	1.144E-02	.4658	8.978E-03	.3655
23.34	.451	R15.36	6.856E-03	.2791	9.319E-03	.3794	1.136E-02	.4625	8.920E-03	.3632
23.65	.457	R16.99	6.919E-03	.2817	9.416E-03	.3833	1.149E-02	.4677	9.011E-03	.3668
23.97	.463	R17.90	6.954E-03	.2831	9.470E-03	.3855	1.156E-02	.4707	9.062E-03	.3689
24.29	.469	R16.69	6.907E-03	.2812	9.398E-03	.3826	1.147E-02	.4668	8.994E-03	.3662
24.60	.475	R15.92	6.878E-03	.2800	9.353E-03	.3808	1.140E-02	.4643	8.952E-03	.3644

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
131	8	TILE INSERT	0.175	.010	.010	1.681E 06	1.861E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.2	1312	29.57	30.01	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.5	.0511	2.279	3821	4.493E-05	7.687E-08	2.233E 06	2.456E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.141	2.624	18.668	1000

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	818.12	6.963E-03	.2835	9.483E-03	.3861	1.158E-02	.4714	9.074E-03	.3694
25.22	.497	815.89	6.877E-03	.2800	9.352E-03	.3807	1.140E-02	.4642	8.951E-03	.3644
25.53	.493	813.42	6.783E-03	.2761	9.207E-03	.3748	1.121E-02	.4564	8.815E-03	.3589
25.83	.499	807.31	6.551E-03	.2667	8.854E-03	.3605	1.074E-02	.4373	8.483E-03	.3454
26.14	.505	716.00	3.621E-03	.1474	4.643E-03	.1890	5.406E-03	.2201	4.485E-03	.1826

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
131	B	TILE INSERT	0.175	.010	.010	1.681E 06	1.861E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	491.2	1312	29.57	30.01	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.5	.0511	2.279	3821	4.493E-05	7.687E-08	2.233E 06	2.456E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.141	2.624	18.668	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.151	534.28	533.75	530.79	530.49	530.10	529.42	529.06	529.09	526.11	528.40
2.147	538.24	537.98	533.60	532.60	531.38	530.16	529.57	529.39	526.51	528.98
3.144	541.19	540.95	535.88	534.40	532.48	530.82	530.07	529.75	527.01	529.75
4.141	543.66	543.39	537.89	536.03	533.51	531.44	530.49	530.07	527.77	530.60
5.137	545.83	545.51	539.69	537.54	534.52	532.03	530.94	530.43	528.62	531.67
6.134	547.82	547.44	541.34	538.95	535.50	532.63	531.35	530.82	529.34	532.34
7.130	549.64	549.23	542.92	540.31	536.44	533.22	531.80	531.17	530.02	533.10
8.127	551.33	550.86	544.42	541.63	537.36	533.78	532.18	531.50	530.78	533.69
9.123	552.93	552.41	545.80	542.87	538.27	534.34	532.60	531.83	531.67	534.63
10.120	554.45	553.89	547.15	544.07	539.19	534.91	533.01	532.18	532.57	535.47
11.117	555.84	555.29	548.44	545.24	540.07	535.50	533.43	532.54	533.33	536.28
12.113	557.24	556.66	549.69	546.39	540.95	536.09	533.84	532.89	534.00	536.90
13.110	558.55	557.94	550.89	547.50	541.84	536.68	534.25	533.25	534.76	537.71
14.106	559.79	559.19	552.06	548.55	542.69	537.24	534.67	533.57	535.74	538.51
15.103	560.98	560.34	553.17	549.58	543.54	537.80	535.05	533.93	536.64	539.31
16.099	562.14	561.53	554.27	550.60	544.36	538.36	535.50	534.28	537.30	539.98
17.096	563.30	562.60	555.35	551.59	545.19	538.98	535.94	534.67	538.02	540.74
18.093	564.39	563.70	556.37	552.58	546.04	539.57	536.38	534.99	538.87	541.40
19.089	565.00	564.28	556.92	553.08	546.47	539.89	536.62	535.23	539.53	541.98
20.086	565.58	564.74	557.38	553.52	546.83	540.16	536.83	535.38	539.76	542.25
20.086	566.50	565.78	558.37	554.45	547.62	540.75	537.24	535.76	540.60	543.05

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
131	8	TILE INSERT	0.175	.010	.010	1.681E 06	1.861E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.2	1312	29.57	30.01	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.5	.0511	2.279	3821	4.493E-05	7.687E-08	2.233E 06	2.456E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.141	2.624	18.668	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.042	567.51	566.79	559.33	555.38	548.41	541.34	537.71	536.15	541.27	543.72
22.079	568.49	567.77	560.29	556.28	549.58	541.93	538.18	536.53	541.98	544.34

NASA/RI 0H60
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/08/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
131	8	TILE INSERT	0.175	.010	.010	1.681E 06	1.861E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.2	1312	29.57	30.01	30.00	.43	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.5	.0511	2.279	3821	4.493E-05	7.687E-08	2.233E 06	2.456E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
20.141	2.624	18.668	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.200	1
9.914	2
18.646	3

NASA/HI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
132	8	TILE INSERT	0.175	.010	.010	1.684E 06	1.865E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.2	1310	39.33	40.00	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0511	2.279	3819	4.499E-05	7.678E-08	2.237E 06	2.456E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.280	2.473	12.892	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	576.13	7.369E-04	.0300	8.970E-04	.0365	1.006E-03	.0410	8.352E-04	.0340
8.15	.158	587.65	9.694E-04	.0394	1.183E-03	.0482	1.330E-03	.0542	1.100E-03	.0448
8.60	.166	603.83	1.312E-03	.0534	1.611E-03	.0656	1.818E-03	.0740	1.495E-03	.0609
9.05	.175	708.23	4.153E-03	.1691	5.308E-03	.2161	6.166E-03	.2511	4.849E-03	.1974
9.49	.183	730.83	4.914E-03	.2001	6.350E-03	.2586	7.437E-03	.3028	5.775E-03	.2352
9.93	.192	725.30	4.723E-03	.1923	6.087E-03	.2478	7.114E-03	.2897	5.542E-03	.2257
10.37	.200	754.30	5.949E-03	.2423	7.806E-03	.3179	9.250E-03	.3767	7.056E-03	.2873
10.81	.209	770.49	6.384E-03	.2600	8.431E-03	.3433	1.004E-02	.4089	7.601E-03	.3095
11.24	.217	782.01	6.850E-03	.2789	9.111E-03	.3710	1.091E-02	.4443	8.190E-03	.3335
11.67	.226	795.52	7.424E-03	.3023	9.960E-03	.4056	1.201E-02	.4891	8.922E-03	.3633
12.10	.234	803.99	7.801E-03	.3176	1.053E-02	.4286	1.275E-02	.5193	9.407E-03	.3830
12.52	.242	808.27	7.997E-03	.3256	1.082E-02	.4407	1.315E-02	.5353	9.661E-03	.3934
12.94	.250	811.38	8.140E-03	.3315	1.104E-02	.4496	1.343E-02	.5471	9.846E-03	.4009
13.36	.258	813.85	8.110E-03	.3305	1.100E-02	.4481	1.339E-02	.5451	9.815E-03	.3996
13.78	.266	815.02	8.308E-03	.3383	1.130E-02	.4601	1.378E-02	.5610	1.006E-02	.4098
14.19	.274	820.09	8.543E-03	.3479	1.166E-02	.4749	1.427E-02	.5809	1.037E-02	.4224
14.60	.282	823.88	8.581E-03	.3494	1.172E-02	.4772	1.434E-02	.5841	1.042E-02	.4244
15.01	.290	823.31	8.554E-03	.3483	1.168E-02	.4755	1.429E-02	.5818	1.039E-02	.4229
15.41	.298	821.66	8.617E-03	.3509	1.178E-02	.4796	1.442E-02	.5872	1.047E-02	.4263
15.81	.306	822.41	8.653E-03	.3524	1.183E-02	.4818	1.450E-02	.5903	1.052E-02	.4282
16.21	.313	822.67	8.666E-03	.3529	1.185E-02	.4826	1.452E-02	.5913	1.053E-02	.4289

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H69
V418-E9A

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
172	8	TILE INSERT	0.175	.010	.010	1.684E 06	1.865E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREHEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.2	1310	39.33	40.00	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	U - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0511	2.279	3819	4.499E-05	7.678E-08	2.237E 06	2.456E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
14.280	2.473	12.892	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	826.22	8.834E-03	.3597	1.211E-02	.4933	1.488E-02	.6058	1.075E-02	.4379
17.00	.329	825.41	8.843E-03	.3601	1.213E-02	.4939	1.490E-02	.6066	1.077E-02	.4384
17.39	.336	824.82	8.853E-03	.3609	1.216E-02	.4951	1.494E-02	.6083	1.079E-02	.4395
17.77	.344	827.88	8.913E-03	.3630	1.224E-02	.4984	1.505E-02	.6127	1.086E-02	.4422
18.16	.351	827.27	8.885E-03	.3618	1.219E-02	.4965	1.498E-02	.6102	1.082E-02	.4406
18.54	.358	825.02	8.821E-03	.3592	1.209E-02	.4925	1.485E-02	.6048	1.074E-02	.4372
18.92	.366	827.18	8.881E-03	.3616	1.219E-02	.4963	1.498E-02	.6098	1.082E-02	.4404
19.29	.373	825.42	8.845E-03	.3602	1.213E-02	.4940	1.490E-02	.6067	1.077E-02	.4385
19.66	.380	824.54	8.756E-03	.3565	1.199E-02	.4883	1.471E-02	.5990	1.065E-02	.4337
20.03	.387	827.34	8.889E-03	.3620	1.220E-02	.4968	1.499E-02	.6105	1.083E-02	.4409
20.40	.394	824.02	8.969E-03	.3652	1.233E-02	.5020	1.517E-02	.6175	1.093E-02	.4452
20.76	.401	825.54	8.995E-03	.3663	1.237E-02	.5036	1.522E-02	.6197	1.097E-02	.4466
21.12	.408	830.73	9.052E-03	.3686	1.246E-02	.5072	1.534E-02	.6248	1.104E-02	.4497
21.48	.415	825.33	8.937E-03	.3639	1.228E-02	.4999	1.510E-02	.6147	1.089E-02	.4435
21.84	.422	827.03	8.875E-03	.3614	1.218E-02	.4959	1.496E-02	.6093	1.081E-02	.4401
22.19	.429	827.85	8.917E-03	.3631	1.224E-02	.4986	1.505E-02	.6129	1.086E-02	.4424
22.54	.436	829.24	8.981E-03	.3657	1.235E-02	.5027	1.519E-02	.6186	1.095E-02	.4458
22.88	.442	829.03	8.922E-03	.3633	1.225E-02	.4989	1.506E-02	.6134	1.087E-02	.4427
23.23	.449	827.85	8.916E-03	.3630	1.224E-02	.4985	1.505E-02	.6128	1.086E-02	.4423
23.57	.456	829.51	8.995E-03	.3663	1.237E-02	.5036	1.522E-02	.6198	1.097E-02	.4466
23.91	.462	829.33	8.939E-03	.3640	1.228E-02	.5000	1.510E-02	.6148	1.089E-02	.4436
24.24	.469	825.73	8.814E-03	.3589	1.208E-02	.4920	1.483E-02	.6040	1.073E-02	.4368

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
132	H	TILE INSERT	0.175	.010	.010	1.684E 06	1.865E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.2	1310	39.33	40.00	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0511	2.279	3819	4.499E-05	7.678E-08	2.237E 06	2.456E-02	75

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
14.280	2.473	12.892	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	827.62	8.905E-03	.3626	1.223E-02	.4978	1.503E-02	.6119	1.085E-02	.4417
24.90	.481	828.23	8.934E-03	.3638	1.227E-02	.4997	1.509E-02	.6144	1.089E-02	.4433
25.23	.488	824.37	8.751E-03	.3564	1.198E-02	.4880	1.470E-02	.5986	1.065E-02	.4335
25.55	.494	819.54	8.525E-03	.3471	1.163E-02	.4737	1.422E-02	.5792	1.035E-02	.4214
25.87	.500	746.22	5.467E-03	.2226	7.123E-03	.2900	8.393E-03	.3418	6.457E-03	.2629

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
132	8	TILE INSERT	0.175	.010	.010	1.684E 06	1.865E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.2	1310	39.33	40.00	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0511	2.279	3819	4.499E-05	7.678E-08	2.237E 06	2.456E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.280	2.473	12.892	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.085	531.71	531.62	529.24	529.15	529.09	528.41	528.17	528.29	517.91	523.41
2.081	535.64	536.15	532.30	531.62	530.61	529.39	528.83	528.68	519.45	525.89
3.078	539.51	539.16	534.70	533.60	531.94	530.25	529.45	529.12	521.34	528.54
4.074	540.90	541.54	536.77	535.35	533.13	531.02	530.04	529.60	523.32	531.00
5.071	543.01	543.63	538.57	536.92	534.25	531.74	530.61	530.07	525.35	533.51
6.068	544.95	545.57	540.25	538.39	535.32	532.45	531.14	530.58	527.28	535.61
7.064	546.74	547.30	541.84	539.78	536.35	533.16	531.65	531.05	529.12	537.71
8.061	548.41	548.93	543.34	541.10	537.36	533.81	532.15	531.47	531.09	539.76
9.057	549.96	550.45	544.72	542.37	538.33	534.43	532.66	531.88	533.15	541.94
10.054	551.45	551.91	546.09	543.63	539.28	535.08	533.13	532.33	535.25	543.85
11.050	552.87	553.34	547.38	544.83	540.25	535.73	533.60	532.74	537.17	545.72
12.047	554.24	554.65	548.67	545.98	541.16	536.41	534.11	533.22	539.09	547.63
13.044	555.35	555.76	549.66	546.91	541.93	536.94	534.49	533.54	540.92	549.44
13.044	555.58	555.96	549.90	547.12	542.10	537.03	534.58	533.63	541.00	549.53
14.040	556.86	557.18	551.07	548.20	542.98	537.68	535.08	534.05	543.10	551.61
15.037	558.08	558.43	552.20	549.28	543.89	538.30	535.56	534.46	545.01	553.43
16.033	559.27	559.59	553.34	550.31	544.83	538.95	536.06	534.94	546.78	555.28

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE. X/L	GAP	K	REX	REK
132	8	TILE INSERT	0.175	.010	.010	1.684E 06	1.865E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	491.2	1310	39.33	40.00	30.00	-9.33	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0511	2.279	3819	4.499E-05	7.678E-08	2.237E 06	2.456E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.280	2.473	12.892	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.221	1
9.240	2
12.861	3

C-

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
133	8	TILE INSERT	0.175	.010	.010	1.892E 06	2.096E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.8	1317	39.24	40.00	30.00	-9.24	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0590	2.584	3829	5.071E-05	7.722E-08	2.515E 06	2.617E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.874	2.455	9.496	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.24	.140	563.59	5.934E-04	.0227	7.191E-04	.0275	8.043E-04	.0307	6.707E-04	.0256
7.69	.149	583.47	1.039E-03	.0397	1.266E-03	.0484	1.421E-03	.0543	1.178E-03	.0450
8.15	.158	595.05	1.315E-03	.0503	1.609E-03	.0615	1.811E-03	.0692	1.495E-03	.0571
8.60	.166	610.94	1.716E-03	.0656	2.109E-03	.0806	2.382E-03	.0910	1.956E-03	.0747
9.05	.175	715.60	5.085E-03	.1943	6.510E-03	.2487	7.571E-03	.2893	5.943E-03	.2271
9.49	.183	729.89	5.643E-03	.2156	7.274E-03	.2779	8.503E-03	.3249	6.622E-03	.2530
9.93	.192	746.60	6.326E-03	.2417	8.225E-03	.3143	9.676E-03	.3697	7.462E-03	.2851
10.37	.200	777.31	7.682E-03	.2935	1.016E-02	.3882	1.211E-02	.4629	9.155E-03	.3498
10.81	.209	783.96	7.996E-03	.3055	1.062E-02	.4057	1.270E-02	.4853	9.552E-03	.3650
11.24	.217	788.79	8.229E-03	.3144	1.096E-02	.4188	1.314E-02	.5021	9.848E-03	.3763
11.67	.226	797.06	8.639E-03	.3301	1.157E-02	.4420	1.393E-02	.5322	1.037E-02	.3962
12.10	.234	801.57	8.869E-03	.3389	1.191E-02	.4551	1.438E-02	.5493	1.067E-02	.4075
12.52	.242	803.44	8.965E-03	.3426	1.206E-02	.4606	1.457E-02	.5565	1.079E-02	.4123
12.94	.250	804.76	9.034E-03	.3452	1.216E-02	.4646	1.470E-02	.5617	1.088E-02	.4156
13.36	.258	803.62	8.975E-03	.3429	1.207E-02	.4612	1.459E-02	.5573	1.080E-02	.4127
13.78	.266	806.84	9.143E-03	.3494	1.232E-02	.4709	1.492E-02	.5700	1.102E-02	.4210
14.19	.274	810.33	9.328E-03	.3564	1.260E-02	.4815	1.528E-02	.5840	1.126E-02	.4301
14.60	.282	810.22	9.322E-03	.3562	1.259E-02	.4811	1.527E-02	.5835	1.125E-02	.4298
15.01	.290	810.54	9.340E-03	.3569	1.262E-02	.4822	1.531E-02	.5849	1.127E-02	.4307
15.41	.298	811.89	9.410E-03	.3596	1.273E-02	.4863	1.545E-02	.5903	1.136E-02	.4342
15.81	.306	812.61	9.448E-03	.3610	1.279E-02	.4885	1.553E-02	.5933	1.141E-02	.4361

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
133	8	TILE INSERT	0.175	.010	.010	1.892E 06	2.096E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.8	1317	39.24	40.00	30.00	-9.24	40.00	0

T - INF (DEG R)	P - INF (PSIA)	G - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0580	2.584	3829	5.071E-05	7.722E-08	2.515E 06	2.617E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.874	2.455	9.496	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.21	.313	811.83	9.408E-03	.3595	1.272E-02	.4861	1.544E-02	.5901	1.136E-02	.4341
16.61	.321	814.63	9.554E-03	.3650	1.295E-02	.4947	1.574E-02	.6014	1.155E-02	.4413
17.00	.329	815.93	9.623E-03	.3677	1.305E-02	.4987	1.588E-02	.6068	1.164E-02	.4448
17.39	.336	816.21	9.640E-03	.3683	1.308E-02	.4997	1.592E-02	.6081	1.166E-02	.4456
17.77	.344	816.91	9.677E-03	.3698	1.313E-02	.5019	1.599E-02	.6110	1.171E-02	.4474
18.16	.351	815.74	9.669E-03	.3694	1.312E-02	.5014	1.597E-02	.6103	1.170E-02	.4470
18.54	.358	816.16	9.638E-03	.3683	1.307E-02	.4996	1.591E-02	.6079	1.166E-02	.4455
18.92	.366	817.25	9.696E-03	.3705	1.316E-02	.5030	1.603E-02	.6125	1.174E-02	.4484
19.29	.373	815.81	9.620E-03	.3676	1.305E-02	.4985	1.587E-02	.6066	1.164E-02	.4446
19.66	.380	814.41	9.547E-03	.3648	1.293E-02	.4942	1.572E-02	.6008	1.154E-02	.4409
20.03	.387	817.07	9.688E-03	.3702	1.315E-02	.5025	1.601E-02	.6118	1.172E-02	.4479
20.40	.394	818.83	9.781E-03	.3737	1.329E-02	.5080	1.620E-02	.6191	1.185E-02	.4526
20.76	.401	819.49	9.817E-03	.3751	1.335E-02	.5100	1.628E-02	.6219	1.189E-02	.4544
21.12	.408	821.76	9.886E-03	.3777	1.345E-02	.5141	1.642E-02	.6273	1.198E-02	.4578
21.48	.415	818.20	9.749E-03	.3725	1.324E-02	.5060	1.614E-02	.6166	1.180E-02	.4510
21.84	.422	817.44	9.709E-03	.3710	1.318E-02	.5037	1.605E-02	.6134	1.175E-02	.4490
22.19	.429	818.44	9.763E-03	.3730	1.327E-02	.5068	1.616E-02	.6176	1.182E-02	.4517
22.54	.436	819.14	9.800E-03	.3745	1.332E-02	.5090	1.624E-02	.6206	1.187E-02	.4535
22.88	.442	817.86	9.729E-03	.3717	1.321E-02	.5049	1.610E-02	.6150	1.178E-02	.4500
23.23	.449	818.47	9.765E-03	.3731	1.327E-02	.5070	1.617E-02	.6178	1.182E-02	.4518
23.57	.456	819.80	9.837E-03	.3759	1.338E-02	.5112	1.632E-02	.6234	1.192E-02	.4554
23.91	.462	818.43	9.763E-03	.3731	1.327E-02	.5069	1.617E-02	.6177	1.182E-02	.4517

NASA/RI OH69
V41H-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
133	8	TILE INSERT	0.175	.010	.010	1.892E 06	2.096E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.8	1317	39.24	40.00	30.00	-9.24	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0580	2.584	3829	5.071E-05	7.722E-08	2.515E 06	2.617E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.874	2.455	9.496	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.24	.469	816.28	9.650E-03	.3687	1.309E-02	.5002	1.593E-02	.6088	1.167E-02	.4460
24.57	.475	814.03	9.796E-03	.3743	1.332E-02	.5088	1.623E-02	.6203	1.187E-02	.4534
24.90	.481	814.49	9.821E-03	.3753	1.335E-02	.5103	1.628E-02	.6222	1.190E-02	.4546
25.23	.488	816.18	9.645E-03	.3685	1.308E-02	.4999	1.592E-02	.6084	1.167E-02	.4458
25.55	.494	811.64	9.406E-03	.3594	1.272E-02	.4860	1.544E-02	.5899	1.136E-02	.4339
25.87	.500	709.67	4.867E-03	.1860	6.214E-03	.2374	7.212E-03	.2756	5.679E-03	.2170

NASA/RI 0H69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
133	8	TILE INSERT	0.175	.010	.010	1.892E 06	2.096E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.8	1317	39.24	40.00	30.00	-9.24	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0580	2.584	3829	5.071E-05	7.722E-08	2.515E 06	2.617E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
10.874	2.455	9.496	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.077	528.92	528.77	526.24	526.06	525.85	525.19	524.93	525.02	529.52	532.79
2.073	533.13	533.63	529.54	528.71	527.58	526.18	525.58	525.40	531.81	536.05
3.070	536.24	536.86	532.12	530.85	529.09	527.10	526.27	525.94	533.95	538.82
4.066	538.80	539.45	534.34	532.74	530.31	527.96	526.89	526.48	536.10	541.18
5.063	541.10	541.69	536.29	534.46	531.53	528.77	527.52	526.98	538.42	543.76
6.060	543.13	543.72	538.10	536.03	532.69	529.51	528.08	527.46	540.92	546.21
7.056	545.07	545.60	539.78	537.54	533.78	530.25	528.65	527.93	543.41	548.38
8.053	546.86	547.35	541.37	538.95	534.85	530.97	529.18	528.44	545.63	550.64
9.049	548.55	549.02	542.92	540.31	535.91	531.68	529.72	528.89	547.85	552.63
9.479	549.26	549.69	543.54	540.90	536.35	531.97	529.93	529.06	548.96	553.65
10.046	550.16	550.60	544.36	541.63	536.94	532.36	530.22	529.36	550.24	554.89
11.042	551.68	552.09	545.74	542.92	537.95	533.07	530.76	529.78	552.45	557.05
12.039	553.17	553.55	547.12	544.16	538.95	533.75	531.29	530.28	554.58	559.21
13.036	554.56	554.91	548.41	545.33	540.16	534.43	531.77	530.76	556.61	561.06

NASA/RI OHAO
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
133	8	TILE INSERT	0.175	.010	.010	1.892E 06	2.096E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.8	1317	39.24	40.00	30.00	-9.24	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0580	2.584	3829	5.071E-05	7.722E-08	2.515E 06	2.617E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.874	2.455	9.496	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.568	1
9.575	2

NASA/RI OH69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
134	8	TILE INSERT	0.175	.010	.010	1.891E 06	2.094E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.5	1318	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0579	2.582	3830	5.067E-05	7.723E-08	2.513E 06	2.617E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.268	2.446	13.894	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	650.72	2.301E-03	.0879	2.867E-03	.1096	3.270E-03	.1250	2.782E-03	.1063
10.33	.200	689.95	3.379E-03	.1292	4.277E-03	.1635	4.933E-03	.1885	4.141E-03	.1583
10.71	.207	716.23	4.181E-03	.1598	5.354E-03	.2046	6.227E-03	.2380	5.174E-03	.1977
11.10	.214	727.91	4.556E-03	.1741	5.867E-03	.2242	6.853E-03	.2619	5.665E-03	.2165
11.48	.222	745.52	5.148E-03	.1967	6.688E-03	.2556	7.865E-03	.3006	6.449E-03	.2465
11.85	.229	759.37	5.636E-03	.2154	7.377E-03	.2819	8.725E-03	.3334	7.105E-03	.2715
12.23	.236	770.18	6.033E-03	.2306	7.946E-03	.3037	9.442E-03	.3609	7.645E-03	.2922
12.60	.244	777.95	6.328E-03	.2419	8.372E-03	.3200	9.985E-03	.3816	8.050E-03	.3077
12.98	.251	782.93	6.521E-03	.2492	8.653E-03	.3307	1.034E-02	.3953	8.316E-03	.3178
13.35	.258	784.64	6.589E-03	.2518	8.753E-03	.3345	1.047E-02	.4003	8.411E-03	.3214
13.72	.265	789.00	6.763E-03	.2585	9.009E-03	.3443	1.080E-02	.4128	8.652E-03	.3307
14.08	.272	792.65	6.911E-03	.2641	9.227E-03	.3526	1.108E-02	.4236	8.854E-03	.3386
14.45	.279	794.59	6.991E-03	.2672	9.345E-03	.3571	1.124E-02	.4295	8.970E-03	.3428
14.81	.286	795.22	7.017E-03	.2682	9.384E-03	.3586	1.129E-02	.4314	9.007E-03	.3442
15.17	.293	795.79	7.041E-03	.2691	9.419E-03	.3600	1.133E-02	.4331	9.040E-03	.3455
15.53	.300	796.56	7.073E-03	.2703	9.466E-03	.3618	1.139E-02	.4355	9.085E-03	.3472
15.89	.307	796.06	7.052E-03	.2695	9.436E-03	.3606	1.136E-02	.4340	9.056E-03	.3461
16.25	.314	796.13	7.055E-03	.2696	9.441E-03	.3608	1.136E-02	.4342	9.061E-03	.3463
16.60	.321	800.21	7.226E-03	.2762	9.694E-03	.3705	1.169E-02	.4468	9.300E-03	.3554
16.96	.328	802.44	7.320E-03	.2798	9.836E-03	.3759	1.188E-02	.4539	9.434E-03	.3605
17.31	.335	802.72	7.332E-03	.2802	9.854E-03	.3766	1.190E-02	.4548	9.451E-03	.3612

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
134	B	TILE INSERT	0.175	.010	.010	1.891E 06	2.094E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.5	1318	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0579	2.582	3830	5.067E-05	7.723E-08	2.513E 06	2.617E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.268	2.446	13.894	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	803.59	7.370E-03	.2817	9.910E-03	.3787	1.197E-02	.4576	9.504E-03	.3632
18.01	.348	804.42	7.405E-03	.2830	9.963E-03	.3808	1.204E-02	.4603	9.554E-03	.3651
18.35	.355	803.83	7.381E-03	.2821	9.926E-03	.3794	1.199E-02	.4584	9.519E-03	.3638
18.70	.361	803.75	7.377E-03	.2819	9.921E-03	.3792	1.199E-02	.4581	9.514E-03	.3636
19.04	.368	805.43	7.449E-03	.2847	1.003E-02	.3833	1.213E-02	.4636	9.616E-03	.3675
19.38	.375	804.35	7.403E-03	.2829	9.960E-03	.3806	1.204E-02	.4601	9.551E-03	.3650
19.72	.381	802.84	7.339E-03	.2805	9.863E-03	.3770	1.191E-02	.4553	9.460E-03	.3615
20.06	.388	804.39	7.405E-03	.2830	9.963E-03	.3808	1.204E-02	.4603	9.554E-03	.3651
20.39	.394	805.37	7.448E-03	.2846	1.003E-02	.3832	1.213E-02	.4634	9.614E-03	.3674
20.73	.401	806.81	7.510E-03	.2870	1.012E-02	.3868	1.225E-02	.4681	9.702E-03	.3708
21.06	.407	808.49	7.583E-03	.2898	1.023E-02	.3910	1.239E-02	.4737	9.806E-03	.3748
21.39	.413	807.54	7.542E-03	.2882	1.017E-02	.3886	1.231E-02	.4706	9.748E-03	.3725
21.72	.420	805.34	7.447E-03	.2846	1.003E-02	.3831	1.212E-02	.4634	9.612E-03	.3674
22.05	.426	805.47	7.452E-03	.2848	1.003E-02	.3835	1.214E-02	.4638	9.620E-03	.3677
22.37	.432	807.18	7.527E-03	.2877	1.015E-02	.3878	1.228E-02	.4694	9.726E-03	.3717
22.69	.439	807.31	7.533E-03	.2879	1.015E-02	.3881	1.229E-02	.4698	9.734E-03	.3720
23.02	.445	805.17	7.440E-03	.2843	1.001E-02	.3828	1.211E-02	.4628	9.603E-03	.3670
23.34	.451	806.21	7.485E-03	.2861	1.008E-02	.3854	1.220E-02	.4663	9.667E-03	.3695
23.65	.457	808.09	7.567E-03	.2892	1.021E-02	.3901	1.236E-02	.4725	9.783E-03	.3739
23.97	.463	807.47	7.540E-03	.2882	1.017E-02	.3885	1.231E-02	.4704	9.745E-03	.3724
24.29	.469	805.48	7.454E-03	.2849	1.004E-02	.3836	1.214E-02	.4639	9.623E-03	.3678
24.60	.475	807.23	7.530E-03	.2878	1.015E-02	.3879	1.229E-02	.4697	9.731E-03	.3719

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
134	8	TILE INSERT	0.175	.010	.010	1.891E 06	2.094E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.5	1318	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0579	2.582	3830	5.067E-05	7.723E-08	2.513E 06	2.617E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.268	2.446	13.894	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	806.97	7.519E-03	.2874	1.013E-02	.3873	1.227E-02	.4688	9.715E-03	.3713
25.22	.487	802.87	7.343E-03	.2806	9.869E-03	.3772	1.192E-02	.4555	9.465E-03	.3617
25.53	.493	799.42	7.197E-03	.2751	9.651E-03	.3688	1.163E-02	.4446	9.259E-03	.3539
25.83	.499	767.76	5.948E-03	.2273	7.823E-03	.2990	9.286E-03	.3549	7.529E-03	.2877
26.14	.505	591.88	9.905E-04	.0379	1.210E-03	.0463	1.361E-03	.0520	1.178E-03	.0450

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
134	8	TILE INSERT	0.175	.010	.010	1.891E 06	2.094E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.5	1318	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0579	2.582	3830	5.067E-05	7.723E-08	2.513E 06	2.617E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.268	2.446	13.894	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.073	529.81	529.21	526.45	526.39	526.86	527.04	527.28	527.61	521.02	523.19
2.069	534.14	533.90	529.48	528.68	528.11	527.79	527.82	527.87	521.79	524.22
3.066	537.30	537.15	531.97	530.64	529.30	528.50	528.32	528.29	522.51	525.26
4.062	539.92	539.75	534.08	532.36	530.40	529.18	528.80	528.68	523.19	526.25
5.059	542.22	542.01	536.03	533.96	531.50	529.81	529.27	529.03	524.00	527.05
6.056	544.30	544.04	537.74	535.47	532.48	530.40	529.69	529.39	524.90	528.22
7.052	546.18	545.89	539.36	536.86	533.43	530.99	530.10	529.72	525.89	529.21
8.049	547.91	547.59	540.92	538.21	534.40	531.59	530.52	530.07	526.74	530.06
9.045	549.55	549.23	542.37	539.51	535.35	532.18	530.94	530.49	527.55	531.00
10.042	551.15	550.75	543.78	540.75	536.29	532.77	531.38	530.82	528.36	531.81
11.038	552.61	552.20	545.10	541.95	537.21	533.37	531.77	531.14	529.39	532.75
12.035	554.01	553.55	546.39	543.13	538.13	533.96	532.21	531.47	530.37	533.87
13.032	555.38	554.86	547.59	544.28	539.04	534.55	532.63	531.86	531.22	534.71
13.877	556.48	555.96	548.64	545.21	539.81	535.08	532.98	532.18	531.99	535.43
14.028	556.66	556.11	548.82	545.39	539.92	535.14	533.04	532.24	531.99	535.47
15.025	557.94	557.36	549.99	546.47	540.81	535.76	533.48	532.57	532.88	536.28
16.021	559.16	558.55	551.10	547.53	541.69	536.35	533.93	532.89	533.95	537.35
17.018	560.34	559.71	552.20	548.58	542.54	536.94	534.34	533.31	534.89	538.33

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/08/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
134	8	TILE INSERT	0.175	.010	.010	1.891E 06	2.094E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.5	1318	29.49	29.99	30.00	.51	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.9	.0579	2.582	3830	5.067E-05	7.723E-08	2.513E 06	2.617E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.268	2.446	13.894	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
4.136	1
9.594	2
13.873	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
135	8	TILE INSERT	0.175	.010	.010	1.885E 06	2.087E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.5	1320	39.23	39.99	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0579	2.582	3834	5.056E-05	7.739E-08	2.505E 06	2.618E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.642	2.464	10.259	1000

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.24	.140	567.02	6.207E-04	.0237	7.526E-04	.0288	8.421E-04	.0322	7.019E-04	.0268
7.69	.149	584.04	9.882E-04	.0378	1.204E-03	.0460	1.352E-03	.0516	1.121E-03	.0428
8.15	.158	594.08	1.218E-03	.0465	1.488E-03	.0569	1.674E-03	.0640	1.384E-03	.0529
8.60	.166	613.44	1.686E-03	.0644	2.073E-03	.0792	2.341E-03	.0895	1.922E-03	.0734
9.05	.175	729.85	5.376E-03	.2054	6.924E-03	.2645	8.088E-03	.3090	6.306E-03	.2409
9.49	.183	723.79	5.147E-03	.1966	6.610E-03	.2525	7.705E-03	.2944	6.027E-03	.2303
9.93	.192	737.16	5.658E-03	.2161	7.313E-03	.2794	8.567E-03	.3273	6.651E-03	.2541
10.37	.200	766.17	6.840E-03	.2613	8.978E-03	.3430	1.084E-02	.4066	8.115E-03	.3100
10.81	.209	778.63	7.384E-03	.2821	9.763E-03	.3730	1.164E-02	.4446	8.799E-03	.3362
11.24	.217	790.82	7.942E-03	.3034	1.058E-02	.4042	1.269E-02	.4847	9.506E-03	.3632
11.67	.226	800.65	8.412E-03	.3214	1.128E-02	.4308	1.359E-02	.5192	1.011E-02	.3861
12.10	.234	807.36	8.745E-03	.3341	1.177E-02	.4498	1.424E-02	.5441	1.053E-02	.4024
12.52	.242	810.86	8.921E-03	.3408	1.204E-02	.4600	1.459E-02	.5575	1.076E-02	.4111
12.94	.250	812.74	9.015E-03	.3444	1.218E-02	.4655	1.478E-02	.5647	1.088E-02	.4158
13.36	.258	811.98	8.977E-03	.3430	1.213E-02	.4633	1.471E-02	.5618	1.083E-02	.4139
13.78	.266	815.45	9.152E-03	.3496	1.239E-02	.4734	1.506E-02	.5753	1.106E-02	.4225
14.19	.274	819.17	9.341E-03	.3569	1.268E-02	.4845	1.544E-02	.5900	1.131E-02	.4319
14.60	.282	819.17	9.341E-03	.3569	1.268E-02	.4845	1.544E-02	.5900	1.131E-02	.4320
15.01	.290	818.95	9.330E-03	.3565	1.267E-02	.4839	1.542E-02	.5891	1.129E-02	.4314
15.41	.298	820.63	9.417E-03	.3598	1.280E-02	.4889	1.560E-02	.5959	1.140E-02	.4357
15.81	.306	820.83	9.427E-03	.3602	1.281E-02	.4895	1.562E-02	.5967	1.142E-02	.4362

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V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
135	8	TILE INSERT	0.175	.010	.010	1.885E 06	2.087E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.5	1320	39.23	39.99	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0579	2.582	3834	5.056E-05	7.739E-08	2.505E 06	2.618E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.642	2.464	10.259	1000

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.21	.313	820.47	9.409E-03	.3595	1.279E-02	.4885	1.558E-02	.5953	1.139E-02	.4353
16.61	.321	824.17	9.599E-03	.3667	1.308E-02	.4997	1.597E-02	.6103	1.164E-02	.4448
17.00	.329	825.04	9.644E-03	.3685	1.315E-02	.5024	1.607E-02	.6139	1.170E-02	.4471
17.39	.336	825.78	9.683E-03	.3699	1.321E-02	.5046	1.615E-02	.6170	1.175E-02	.4490
17.77	.344	826.14	9.702E-03	.3707	1.324E-02	.5058	1.619E-02	.6185	1.178E-02	.4500
18.16	.351	825.29	9.659E-03	.3690	1.317E-02	.5032	1.610E-02	.6150	1.172E-02	.4478
18.54	.358	824.98	9.643E-03	.3684	1.315E-02	.5023	1.606E-02	.6138	1.170E-02	.4470
18.92	.366	826.15	9.704E-03	.3707	1.324E-02	.5058	1.619E-02	.6186	1.178E-02	.4500
19.29	.373	825.13	9.651E-03	.3687	1.316E-02	.5027	1.608E-02	.6144	1.171E-02	.4474
19.66	.380	823.11	9.547E-03	.3647	1.300E-02	.4966	1.587E-02	.6061	1.157E-02	.4422
20.03	.387	825.80	9.686E-03	.3701	1.321E-02	.5048	1.616E-02	.6172	1.176E-02	.4492
20.40	.394	827.60	9.780E-03	.3736	1.336E-02	.5104	1.635E-02	.6247	1.188E-02	.4539
20.76	.401	828.25	9.814E-03	.3749	1.341E-02	.5124	1.642E-02	.6274	1.192E-02	.4556
21.12	.408	829.15	9.862E-03	.3768	1.349E-02	.5152	1.652E-02	.6313	1.199E-02	.4580
21.48	.415	826.67	9.733E-03	.3718	1.329E-02	.5076	1.625E-02	.6209	1.182E-02	.4515
21.84	.422	826.07	9.702E-03	.3707	1.324E-02	.5057	1.619E-02	.6184	1.178E-02	.4500
22.19	.429	827.38	9.770E-03	.3733	1.334E-02	.5098	1.633E-02	.6239	1.187E-02	.4534
22.54	.436	828.37	9.822E-03	.3752	1.342E-02	.5129	1.644E-02	.6280	1.194E-02	.4560
22.88	.442	825.80	9.689E-03	.3702	1.322E-02	.5049	1.616E-02	.6174	1.176E-02	.4493
23.23	.449	826.62	9.731E-03	.3718	1.328E-02	.5075	1.625E-02	.6208	1.182E-02	.4514
23.57	.456	829.00	9.856E-03	.3765	1.348E-02	.5149	1.651E-02	.6307	1.198E-02	.4577
23.91	.462	827.55	9.781E-03	.3737	1.336E-02	.5104	1.635E-02	.6247	1.188E-02	.4539

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
135	A	TILE INSERT	0.175	.010	.010	1.885E 06	2.087E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.5	1320	39.23	39.99	30.00	-9.23	40.00	0.

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0579	2.582	3834	5.056E-05	7.739E-08	2.505E 06	2.618E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.642	2.464	10.259	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.24	.469	825.32	9.665E-03	.3692	1.318E-02	.5035	1.611E-02	.6154	1.173E-02	.4481
24.57	.475	828.36	9.823E-03	.3753	1.343E-02	.5129	1.644E-02	.6281	1.194E-02	.4560
24.90	.481	826.29	9.716E-03	.3712	1.326E-02	.5065	1.621E-02	.6195	1.180E-02	.4506
25.23	.488	823.37	9.565E-03	.3654	1.303E-02	.4976	1.590E-02	.6075	1.160E-02	.4431
25.55	.494	817.19	9.249E-03	.3534	1.254E-02	.4791	1.525E-02	.5827	1.119E-02	.4273
25.87	.500	698.47	4.238E-03	.1619	5.380E-03	.2055	6.218E-03	.2375	4.928E-03	.1883

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
135	8	TILE INSERT	0.175	.010	.010	1.885E 06	2.087E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.5	1320	39.23	39.99	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0579	2.582	3834	5.056E-05	7.739E-08	2.505E 06	2.618E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
11.642	2.464	10.259	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.081	526.92	526.65	524.12	523.97	523.91	523.91	524.24	524.48	522.65	524.63
2.077	530.99	531.39	527.22	526.57	525.58	524.84	524.81	524.78	525.26	527.95
3.074	533.90	534.52	529.69	528.62	526.95	525.70	525.43	525.25	527.73	530.91
4.070	536.32	537.03	531.83	530.40	528.20	526.48	525.97	525.73	529.93	533.51
5.067	538.48	539.19	533.69	532.09	529.39	527.22	526.54	526.18	532.21	535.97
6.064	540.45	541.13	535.41	533.57	530.43	527.90	527.07	526.57	534.45	538.42
7.060	542.25	542.90	536.97	534.99	531.50	528.59	527.58	527.01	536.72	540.83
8.057	543.89	544.60	538.48	536.35	532.51	529.24	528.05	527.46	538.95	543.01
9.053	545.39	546.15	539.92	537.62	533.48	529.90	528.53	527.87	540.96	545.01
10.050	546.83	547.62	541.28	538.86	534.43	530.55	528.98	528.26	543.05	547.09
10.242	547.09	547.88	541.54	539.10	534.61	530.64	529.09	528.32	543.58	547.71
11.046	548.17	548.99	542.60	540.01	535.39	531.17	529.48	528.65	545.23	549.31
12.043	549.52	550.34	543.86	541.16	536.29	531.80	529.93	529.03	547.32	551.53
13.040	550.75	551.56	545.07	542.25	537.21	532.42	530.40	529.45	549.40	553.52

NASA/RI 0H69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/08/75

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
135	8	TILE INSERT	0.175	.010	.010	1.885E 06	2.087E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	556.5	1320	39.23	39.99	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.1	.0579	2.582	3834	5.056E-05	7.739E-08	2.505E 06	2.618E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.642	2.464	10.259	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.993	1
10.251	2

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
136	B	TILE INSERT	0.175	.010	.010	2.049E 06	2.269E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.4	1327	39.16	39.99	30.00	-9.16	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0631	2.822	3843	5.497E-05	7.759E-08	2.723E 06	2.738E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.279	2.459	7.898	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.24	.140	567.66	7.161E-04	.0262	8.678E-04	.0317	9.705E-04	.0354	8.095E-04	.0296
7.69	.149	585.46	1.152E-03	.0421	1.403E-03	.0512	1.575E-03	.0575	1.306E-03	.0477
8.15	.158	594.80	1.394E-03	.0509	1.703E-03	.0622	1.914E-03	.0699	1.583E-03	.0578
8.60	.166	611.57	1.850E-03	.0676	2.272E-03	.0830	2.564E-03	.0936	2.108E-03	.0770
9.05	.175	703.75	5.062E-03	.1849	6.438E-03	.2351	7.450E-03	.2720	5.893E-03	.2152
9.49	.183	743.30	6.649E-03	.2428	8.606E-03	.3143	1.009E-02	.3685	7.822E-03	.2857
9.93	.192	738.16	6.419E-03	.2344	8.287E-03	.3026	9.697E-03	.3541	7.540E-03	.2754
10.37	.200	764.09	7.607E-03	.2778	9.954E-03	.3635	1.177E-02	.4298	9.009E-03	.3290
10.81	.209	777.34	8.255E-03	.3015	1.086E-02	.3974	1.294E-02	.4727	9.820E-03	.3586
11.24	.217	787.08	8.750E-03	.3195	1.160E-02	.4237	1.386E-02	.5062	1.044E-02	.3814
11.67	.226	795.83	9.212E-03	.3364	1.228E-02	.4484	1.473E-02	.5381	1.103E-02	.4028
12.10	.234	801.91	9.543E-03	.3485	1.277E-02	.4664	1.537E-02	.5613	1.145E-02	.4183
12.52	.242	804.33	9.678E-03	.3534	1.297E-02	.4737	1.563E-02	.5708	1.163E-02	.4246
12.94	.250	806.29	9.788E-03	.3574	1.314E-02	.4797	1.585E-02	.5787	1.177E-02	.4297
13.36	.258	804.75	9.702E-03	.3543	1.301E-02	.4750	1.568E-02	.5725	1.166E-02	.4257
13.78	.266	807.34	9.848E-03	.3596	1.323E-02	.4830	1.596E-02	.5829	1.184E-02	.4325
14.19	.274	811.33	1.007E-02	.3678	1.356E-02	.4953	1.641E-02	.5991	1.213E-02	.4431
14.60	.282	812.41	1.013E-02	.3701	1.366E-02	.4987	1.653E-02	.6036	1.221E-02	.4460
15.01	.290	811.88	1.010E-02	.3690	1.361E-02	.4971	1.647E-02	.6014	1.217E-02	.4446
15.41	.298	813.90	1.022E-02	.3732	1.378E-02	.5034	1.670E-02	.6098	1.232E-02	.4500
15.81	.306	813.95	1.022E-02	.3733	1.379E-02	.5035	1.670E-02	.6099	1.233E-02	.4501

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
136	B	TILE INSERT	0.175	.010	.010	2.049E 06	2.269E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.4	1327	39.16	39.99	30.00	-9.16	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0671	2.822	3843	5.497E-05	7.759E-08	2.723E 06	2.738E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.279	2.459	7.898	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.21	.313	817.22	1.013E-02	.3697	1.364E-02	.4982	1.651E-02	.6029	1.220E-02	.4455
16.61	.321	815.28	1.030E-02	.3761	1.390E-02	.5077	1.685E-02	.6155	1.242E-02	.4537
17.00	.329	816.32	1.036E-02	.3782	1.399E-02	.5110	1.697E-02	.6199	1.250E-02	.4565
17.39	.336	817.49	1.042E-02	.3807	1.410E-02	.5147	1.711E-02	.6248	1.259E-02	.4597
17.77	.344	817.58	1.043E-02	.3809	1.410E-02	.5151	1.712E-02	.6252	1.259E-02	.4599
18.16	.351	817.06	1.040E-02	.3798	1.406E-02	.5134	1.706E-02	.6231	1.256E-02	.4586
18.54	.358	816.69	1.038E-02	.3790	1.403E-02	.5123	1.702E-02	.6215	1.253E-02	.4576
18.92	.366	818.09	1.046E-02	.3820	1.415E-02	.5167	1.718E-02	.6274	1.263E-02	.4614
19.29	.373	817.26	1.041E-02	.3803	1.408E-02	.5141	1.709E-02	.6240	1.257E-02	.4592
19.66	.380	815.81	1.033E-02	.3773	1.395E-02	.5096	1.692E-02	.6179	1.247E-02	.4553
20.03	.387	818.14	1.046E-02	.3821	1.416E-02	.5170	1.719E-02	.6277	1.264E-02	.4616
20.40	.394	819.30	1.053E-02	.3846	1.426E-02	.5207	1.732E-02	.6326	1.273E-02	.4647
20.76	.401	819.38	1.054E-02	.3847	1.427E-02	.5210	1.733E-02	.6330	1.273E-02	.4650
21.12	.408	820.17	1.058E-02	.3864	1.433E-02	.5235	1.743E-02	.6364	1.279E-02	.4671
21.48	.415	817.25	1.041E-02	.3803	1.408E-02	.5142	1.709E-02	.6240	1.258E-02	.4592
21.84	.422	817.30	1.042E-02	.3805	1.409E-02	.5144	1.710E-02	.6243	1.258E-02	.4594
22.19	.429	819.53	1.055E-02	.3851	1.428E-02	.5215	1.735E-02	.6337	1.275E-02	.4654
22.54	.436	819.66	1.055E-02	.3854	1.429E-02	.5220	1.737E-02	.6343	1.276E-02	.4658
22.88	.442	817.53	1.043E-02	.3810	1.411E-02	.5152	1.712E-02	.6253	1.260E-02	.4600
23.23	.449	818.36	1.048E-02	.3827	1.418E-02	.5178	1.722E-02	.6288	1.266E-02	.4623
23.57	.456	820.14	1.058E-02	.3865	1.434E-02	.5236	1.743E-02	.6364	1.279E-02	.4672
23.91	.462	819.48	1.054E-02	.3851	1.428E-02	.5214	1.735E-02	.6336	1.274E-02	.4654

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
136	8	TILE INSERT	0.175	.010	.010	2.049E 06	2.269E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.4	1327	39.16	39.99	30.00	-9.16	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0631	2.822	3843	5.497E-05	7.759E-08	2.723E 06	2.738E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.279	2.459	7.898	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.24	.469	817.83	1.045E-02	.3817	1.414E-02	.5162	1.716E-02	.6267	1.262E-02	.4609
24.57	.475	82[illegible].63	1.061E-02	.3875	1.438E-02	.5252	1.749E-02	.6386	1.283E-02	.4686
24.90	.481	818.40	1.048E-02	.3829	1.419E-02	.5181	1.723E-02	.6291	1.267E-02	.4625
25.23	.488	815.82	1.034E-02	.3775	1.396E-02	.5099	1.693E-02	.6184	1.248E-02	.4556
25.55	.494	80[illegible].89	9.834E-03	.3591	1.320E-02	.4822	1.593E-02	.5818	1.183E-02	.4318
25.87	.500	664.76	3.516E-03	.1284	4.398E-03	.1606	5.028E-03	.1836	4.052E-03	.1480

NASA/RI 0H69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
136	8	TILE INSERT	0.175	.010	.010	2.049E 06	2.269E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.4	1327	39.16	39.99	30.00	-9.16	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0631	2.822	3843	5.497E-05	7.759E-08	2.723E 06	2.738E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.279	2.459	7.898	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.079	525.97	525.79	523.11	523.70	523.94	524.39	524.90	525.40	530.15	532.34
2.075	530.19	530.70	526.30	526.51	525.82	525.37	525.52	525.76	532.88	536.10
3.072	533.31	534.02	528.77	528.77	527.31	526.33	526.21	526.30	535.43	539.18
4.068	535.91	536.74	530.98	530.73	528.62	527.19	526.86	526.80	537.93	542.03
5.065	538.21	539.01	532.69	532.48	529.84	527.99	527.46	527.28	540.47	544.83
6.062	540.31	541.10	534.34	534.11	531.05	528.77	528.05	527.82	542.92	547.45
7.058	542.28	543.01	535.94	535.64	532.15	529.54	528.62	528.29	545.23	549.75
7.881	543.81	544.49	537.12	536.83	533.07	530.13	529.06	528.68	547.32	551.97
8.055	544.10	544.77	537.42	537.09	533.28	530.28	529.18	528.77	547.49	552.10
9.051	545.77	546.42	538.83	538.48	534.34	530.97	529.72	529.21	549.89	554.53
10.048	547.30	547.97	540.16	539.92	535.44	531.71	530.25	529.69	552.23	556.83
11.044	548.82	549.31	541.42	541.10	536.41	532.39	530.76	530.16	554.49	559.30

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
136	8	TILE INSERT	0.175	.010	.010	2.049E 06	2.269E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.4	1327	39.16	39.99	30.00	-9.16	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0631	2.822	3843	5.497E-05	7.759E-08	2.723E 06	2.738E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
9.279	2.459	7.898	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.451	1
7.854	2

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
137	8	TILE INSERT	0.175	.010	.010	2.048E 06	2.268E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.6	1328	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0632	2.822	3845	5.495E-05	7.764E-08	2.721E 06	2.739E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
12.863	2.464	11.480	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.108	569.28	5.898E-04	.0215	7.149E-04	.0261	7.998E-04	.0292	6.966E-04	.0254
9.55	.192	647.47	2.387E-03	.0871	2.965E-03	.1083	3.375E-03	.1232	2.879E-03	.1051
10.33	.200	699.53	3.946E-03	.1441	5.004E-03	.1827	5.778E-03	.2110	4.843E-03	.1768
10.71	.207	724.28	4.780E-03	.1745	6.129E-03	.2238	7.136E-03	.2605	5.922E-03	.2162
11.10	.214	74[illegible].06	5.344E-03	.1951	6.904E-03	.2520	8.083E-03	.2951	6.662E-03	.2432
11.48	.222	754.76	5.893E-03	.2151	7.671E-03	.2800	9.033E-03	.3298	7.394E-03	.2699
11.85	.229	766.98	6.370E-03	.2326	8.346E-03	.3047	9.879E-03	.3607	8.037E-03	.2934
12.23	.236	775.22	6.703E-03	.2447	8.824E-03	.3221	1.048E-02	.3827	8.490E-03	.3100
12.60	.244	78[illegible].97	6.941E-03	.2534	9.168E-03	.3347	1.092E-02	.3986	8.817E-03	.3219
12.98	.251	785.71	7.142E-03	.2607	9.459E-03	.3453	1.129E-02	.4122	9.093E-03	.3320
13.35	.258	788.21	7.163E-03	.2615	9.491E-03	.3465	1.133E-02	.4137	9.123E-03	.3331
13.72	.265	789.52	7.305E-03	.2667	9.697E-03	.3540	1.160E-02	.4234	9.319E-03	.3402
14.08	.272	793.39	7.475E-03	.2729	9.946E-03	.3631	1.192E-02	.4351	9.554E-03	.3488
14.45	.279	796.35	7.606E-03	.2777	1.014E-02	.3702	1.217E-02	.4442	9.737E-03	.3555
14.81	.286	797.20	7.644E-03	.2791	1.020E-02	.3722	1.224E-02	.4468	9.790E-03	.3574
15.17	.293	797.35	7.651E-03	.2793	1.021E-02	.3726	1.225E-02	.4473	9.800E-03	.3578
15.53	.300	799.01	7.725E-03	.2820	1.032E-02	.3766	1.239E-02	.4525	9.904E-03	.3616
15.89	.307	798.79	7.716E-03	.2817	1.030E-02	.3761	1.238E-02	.4519	9.891E-03	.3611
16.25	.314	797.28	7.648E-03	.2792	1.020E-02	.3725	1.225E-02	.4471	9.796E-03	.3577
16.60	.321	799.79	7.761E-03	.2833	1.037E-02	.3786	1.246E-02	.4550	9.954E-03	.3634
16.96	.328	802.91	7.903E-03	.2885	1.058E-02	.3863	1.274E-02	.4650	1.015E-02	.3707

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
137	8	TILE INSERT	0.175	.010	.010	2.048E 06	2.268E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.6	1328	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	U - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0632	2.822	3845	5.495E-05	7.764E-08	2.721E 06	2.739E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.863	2.464	11.480	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	802.89	7.903E-03	.2885	1.058E-02	.3862	1.274E-02	.4650	1.015E-02	.3707
17.66	.341	803.34	7.923E-03	.2893	1.061E-02	.3874	1.278E-02	.4664	1.018E-02	.3717
18.01	.348	804.15	7.961E-03	.2906	1.067E-02	.3894	1.285E-02	.4691	1.023E-02	.3736
18.35	.355	804.94	7.997E-03	.2920	1.072E-02	.3914	1.292E-02	.4717	1.029E-02	.3755
18.70	.361	804.29	7.968E-03	.2909	1.068E-02	.3898	1.286E-02	.4696	1.024E-02	.3740
19.04	.368	805.36	8.017E-03	.2927	1.075E-02	.3925	1.296E-02	.4731	1.031E-02	.3765
19.38	.375	805.34	8.017E-03	.2927	1.075E-02	.3924	1.296E-02	.4730	1.031E-02	.3765
19.72	.381	803.29	7.923E-03	.2892	1.061E-02	.3873	1.277E-02	.4664	1.018E-02	.3717
20.06	.388	804.07	7.959E-03	.2906	1.066E-02	.3893	1.284E-02	.4685	1.023E-02	.3735
20.39	.394	804.52	7.979E-03	.2913	1.069E-02	.3904	1.288E-02	.4704	1.026E-02	.3746
20.73	.401	805.98	8.047E-03	.2938	1.079E-02	.3941	1.302E-02	.4752	1.036E-02	.3781
21.06	.407	807.84	8.134E-03	.2970	1.092E-02	.3988	1.319E-02	.4814	1.048E-02	.3826
21.39	.413	808.57	8.169E-03	.2982	1.098E-02	.4007	1.325E-02	.4839	1.053E-02	.3843
21.72	.420	805.66	8.033E-03	.2933	1.077E-02	.3933	1.299E-02	.4742	1.034E-02	.3773
22.05	.426	805.45	8.025E-03	.2930	1.076E-02	.3929	1.297E-02	.4736	1.032E-02	.3769
22.37	.432	806.58	8.076E-03	.2949	1.084E-02	.3957	1.307E-02	.4773	1.040E-02	.3796
22.69	.439	808.47	8.165E-03	.2981	1.097E-02	.4005	1.325E-02	.4836	1.052E-02	.3841
23.02	.445	806.98	8.095E-03	.2955	1.087E-02	.3967	1.311E-02	.4786	1.042E-02	.3805
23.34	.451	805.61	8.032E-03	.2932	1.077E-02	.3932	1.299E-02	.4741	1.033E-02	.3773
23.65	.457	807.85	8.136E-03	.2970	1.093E-02	.3989	1.319E-02	.4815	1.048E-02	.3827
23.97	.463	809.08	8.194E-03	.2992	1.101E-02	.4021	1.330E-02	.4857	1.056E-02	.3856
24.29	.469	807.17	8.105E-03	.2959	1.088E-02	.3972	1.313E-02	.4793	1.044E-02	.3810

NASA/RI 0H69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
137	8	TILE INSERT	0.175	.010	.010	2.048E 06	2.268E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.6	1328	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0632	2.822	3845	5.495E-05	7.764E-08	2.721E 06	2.739E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.863	2.464	11.480	1000

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	805.25	8.062E-03	.2944	1.082E-02	.3949	1.305E-02	.4763	1.038E-02	.3788
24.91	.482	808.61	8.173E-03	.2984	1.098E-02	.4009	1.326E-02	.4842	1.053E-02	.3845
25.22	.487	804.62	7.987E-03	.2916	1.070E-02	.3908	1.290E-02	.4709	1.027E-02	.3750
25.53	.493	801.53	7.846E-03	.2964	1.049E-02	.3831	1.262E-02	.4609	1.007E-02	.3677
25.83	.499	789.63	7.317E-03	.2672	9.715E-03	.3547	1.162E-02	.4242	9.335E-03	.3408
26.14	.505	635.59	2.081E-03	.0760	2.575E-03	.0940	2.922E-03	.1067	2.501E-03	.0913

NASA/RI OH69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/ 8/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
137	8	TILE INSERT	0.175	.010	.010	2.048E 06	2.268E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.6	1328	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	RHEF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0632	2.822	3845	5.495E-05	7.764E-08	2.721E 06	2.739E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.863	2.464	11.480	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.081	529.69	528.86	525.88	526.36	526.54	527.01	527.52	527.87	522.87	523.50
2.077	533.99	533.60	529.85	528.77	527.99	527.79	528.05	528.20	523.77	524.45
3.074	537.18	536.97	531.35	530.82	529.24	528.53	528.56	528.59	524.54	525.44
4.070	539.89	539.69	533.43	532.63	530.34	529.18	529.06	528.95	525.57	526.56
5.067	542.22	542.01	535.29	534.28	531.44	529.84	529.51	529.30	526.65	527.73
6.064	544.42	544.13	537.00	535.85	532.45	530.43	529.99	529.72	527.64	528.85
7.060	546.33	546.04	538.60	537.33	533.51	531.08	530.43	530.07	528.54	529.84
8.057	548.17	547.76	540.10	538.72	534.52	531.71	530.85	530.46	529.43	530.78
9.053	549.81	549.37	541.40	540.04	535.50	532.30	531.26	530.79	530.46	531.81
10.050	551.27	550.89	542.66	541.31	536.44	532.89	531.71	531.14	531.67	532.88
11.046	552.61	552.23	543.89	542.54	537.42	533.51	532.12	531.50	532.39	533.82
11.482	553.17	552.79	544.39	543.04	537.80	533.78	532.30	531.65	533.06	534.45
12.043	553.87	553.46	545.04	543.75	538.33	534.14	532.57	531.88	533.42	534.85
13.040	555.03	554.71	546.18	544.89	539.28	534.76	533.01	532.24	534.31	535.70
14.036	556.19	556.05	547.24	546.09	539.95	535.38	533.46	532.60	535.38	536.72

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/08/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
137	8	TILE INSERT	0.175	.010	.010	2.048E 06	2.268E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	611.6	1328	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0632	2.822	3845	5.495E-05	7.764E-08	2.721E 06	2.739E-02	77

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.863	2.464	11.480	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
2.004	1
5.730	2
11.458	3

NASA/RI 0H69
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/08/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
138	8	TILE INSERT	0.175	.010	.010	2.245E 06	2.486E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	670.2	1327	29.38	29.98	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0692	3.093	3844	6.023E-05	7.762E-08	2.983E 06	2.867E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.409	2.459	10.029	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
5.60	.188	571.46	7.143E-04	.0249	8.664E-04	.0302	9.697E-04	.0338	8.442E-04	.0294
9.45	.192	634.00	2.361E-03	.0824	2.925E-03	.1020	3.322E-03	.1159	2.841E-03	.0991
10.33	.200	705.24	4.474E-03	.1561	5.688E-03	.1984	6.580E-03	.2295	5.503E-03	.1919
10.71	.207	728.36	5.322E-03	.1856	6.837E-03	.2385	7.972E-03	.2780	6.604E-03	.2303
11.10	.214	742.61	5.873E-03	.2048	7.597E-03	.2650	8.905E-03	.3106	7.331E-03	.2557
11.48	.222	757.24	6.464E-03	.2254	8.425E-03	.2939	9.933E-03	.3464	8.120E-03	.2832
11.85	.229	769.29	6.972E-03	.2432	9.148E-03	.3191	1.084E-02	.3781	8.808E-03	.3072
12.23	.236	777.20	7.318E-03	.2552	9.645E-03	.3364	1.147E-02	.4000	9.279E-03	.3237
12.60	.244	782.23	7.543E-03	.2631	9.971E-03	.3478	1.188E-02	.4145	9.589E-03	.3345
12.98	.251	786.67	7.745E-03	.2701	1.027E-02	.3580	1.226E-02	.4276	9.868E-03	.3442
13.35	.258	787.24	7.772E-03	.2711	1.030E-02	.3594	1.231E-02	.4293	9.904E-03	.3455
13.72	.265	789.04	7.855E-03	.2740	1.043E-02	.3637	1.247E-02	.4348	1.002E-02	.3495
14.08	.272	792.58	8.021E-03	.2797	1.067E-02	.3721	1.278E-02	.4457	1.025E-02	.3575
14.45	.279	795.35	8.152E-03	.2843	1.086E-02	.3789	1.303E-02	.4544	1.043E-02	.3639
14.81	.286	796.17	8.191E-03	.2857	1.092E-02	.3809	1.310E-02	.4570	1.049E-02	.3658
15.17	.293	796.29	8.197E-03	.2859	1.093E-02	.3812	1.311E-02	.4574	1.050E-02	.3661
15.53	.300	797.63	8.261E-03	.2881	1.102E-02	.3845	1.324E-02	.4617	1.059E-02	.3692
15.89	.307	797.99	8.279E-03	.2888	1.105E-02	.3854	1.327E-02	.4628	1.061E-02	.3701
16.25	.314	797.03	8.233E-03	.2872	1.098E-02	.3830	1.318E-02	.4598	1.055E-02	.3678
16.60	.321	795.66	8.312E-03	.2899	1.110E-02	.3871	1.333E-02	.4651	1.066E-02	.3717
16.96	.328	801.79	8.464E-03	.2952	1.132E-02	.3950	1.363E-02	.4753	1.087E-02	.3791

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H60
V41H-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
138	8	TILE INSERT	0.175	.010	.010	2.245E 06	2.486E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	670.2	1327	29.38	29.98	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0692	3.093	3844	6.023E-05	7.762E-08	2.983E 06	2.867E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.409	2.459	10.029	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	802.63	8.505E-03	.2967	1.139E-02	.3971	1.371E-02	.4781	1.093E-02	.3811
17.66	.341	803.00	8.528E-03	.2975	1.142E-02	.3983	1.375E-02	.4796	1.096E-02	.3823
18.01	.348	803.57	8.552E-03	.2983	1.146E-02	.3996	1.380E-02	.4812	1.099E-02	.3834
18.35	.355	804.71	8.609E-03	.3003	1.154E-02	.4025	1.391E-02	.4851	1.107E-02	.3862
18.70	.361	804.38	8.593E-03	.2997	1.152E-02	.4017	1.388E-02	.4840	1.105E-02	.3854
19.04	.368	804.90	8.619E-03	.3006	1.155E-02	.4030	1.393E-02	.4857	1.109E-02	.3867
19.38	.375	805.21	8.634E-03	.3011	1.158E-02	.4038	1.396E-02	.4868	1.111E-02	.3875
19.72	.381	802.97	8.524E-03	.2973	1.141E-02	.3981	1.374E-02	.4793	1.095E-02	.3820
20.06	.388	803.32	8.542E-03	.2979	1.144E-02	.3990	1.378E-02	.4805	1.098E-02	.3829
20.39	.394	804.26	8.588E-03	.2995	1.151E-02	.4014	1.387E-02	.4836	1.104E-02	.3852
20.73	.401	805.58	8.653E-03	.3018	1.161E-02	.4048	1.399E-02	.4881	1.114E-02	.3884
21.06	.407	807.25	8.737E-03	.3047	1.173E-02	.4092	1.416E-02	.4938	1.125E-02	.3925
21.39	.413	808.57	8.804E-03	.3071	1.183E-02	.4126	1.429E-02	.4983	1.135E-02	.3958
21.72	.420	806.14	8.682E-03	.3028	1.165E-02	.4063	1.405E-02	.4900	1.118E-02	.3898
22.05	.426	805.50	8.651E-03	.3017	1.160E-02	.4047	1.399E-02	.4879	1.113E-02	.3883
22.37	.432	806.60	8.706E-03	.3037	1.168E-02	.4075	1.410E-02	.4916	1.121E-02	.3910
22.69	.439	807.76	8.764E-03	.3057	1.177E-02	.4106	1.421E-02	.4956	1.129E-02	.3938
23.02	.445	805.75	8.664E-03	.3022	1.162E-02	.4054	1.401E-02	.4888	1.115E-02	.3889
23.34	.451	804.99	8.626E-03	.3009	1.157E-02	.4034	1.394E-02	.4862	1.110E-02	.3871
23.65	.457	807.31	8.742E-03	.3049	1.174E-02	.4094	1.417E-02	.4941	1.126E-02	.3928
23.97	.463	804.12	8.784E-03	.3064	1.180E-02	.4116	1.425E-02	.4969	1.132E-02	.3948
24.29	.469	806.45	8.700E-03	.3034	1.168E-02	.4072	1.408E-02	.4912	1.120E-02	.3907

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
138	8	TILE INSERT	0.175	.010	.010	2.245E 06	2.486E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	670.2	1327	29.38	29.98	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0692	3.093	3844	6.023E-05	7.762E-08	2.983E 06	2.867E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.409	2.459	10.029	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	806.22	8.689E-03	.3031	1.166E-02	.4066	1.406E-02	.4904	1.119E-02	.3901
24.91	.482	808.49	8.803E-03	.3070	1.183E-02	.4126	1.428E-02	.4982	1.135E-02	.3957
25.22	.487	803.64	8.562E-03	.2986	1.147E-02	.4000	1.382E-02	.4819	1.101E-02	.3839
25.53	.493	799.34	8.352E-03	.2913	1.116E-02	.3891	1.341E-02	.4676	1.071E-02	.3736
25.83	.499	784.02	7.633E-03	.2662	1.010E-02	.3523	1.205E-02	.4203	9.713E-03	.3388
26.14	.505	630.11	2.123E-03	.0741	2.622E-03	.0915	2.972E-03	.1036	2.548E-03	.0889

NASA/RI OHIO
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
138	8	TILE INSERT	0.175	.010	.010	2.245E 06	2.486E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	670.2	1327	29.38	29.98	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0692	3.093	3844	6.023E-05	7.762E-08	2.983E 06	2.867E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
11.409	2.459	10.029	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.079	531.02	530.19	527.13	527.10	527.10	526.89	527.01	527.10	519.67	521.66
2.075	535.43	535.11	530.25	529.59	528.41	527.63	527.51	527.33	520.53	522.83
3.072	538.68	538.62	532.74	531.70	529.62	528.35	528.02	527.69	521.66	524.13
4.068	541.42	541.42	534.90	533.60	530.81	529.03	528.49	528.08	522.69	525.44
5.065	543.86	543.89	536.82	535.31	531.94	529.68	528.97	528.44	523.68	526.47
6.062	546.12	546.12	538.62	536.91	533.01	530.34	529.39	528.82	524.72	527.64
7.058	548.14	548.08	540.24	538.42	534.04	530.96	529.83	529.18	525.75	528.71
8.055	549.88	549.89	541.77	539.86	535.08	531.58	530.28	529.51	526.92	529.79
9.051	551.70	551.65	543.21	541.21	536.08	532.18	530.69	529.86	528.04	531.00
10.011	553.25	553.16	544.56	542.46	537.03	532.80	531.08	530.22	528.98	531.85
10.048	553.31	553.22	544.59	542.54	537.06	532.80	531.11	530.22	529.07	531.90
11.044	554.85	554.71	545.85	543.80	538.03	533.45	531.55	530.57	530.06	532.97
12.041	556.33	556.16	547.00	545.03	539.01	534.04	531.97	530.93	531.31	534.04
13.038	557.67	557.50	548.11	546.18	539.98	534.66	532.41	531.26	532.43	535.12

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
178	8	TILE INSERT	0.175	.010	.010	2.245E 06	2.486E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	670.2	1327	29.38	29.98	30.00	.62	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.4	.0692	3.093	3844	6.023E-05	7.762E-08	2.983E 06	2.867E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.409	2.459	10.029	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
1.691	1
5.380	2
9.956	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
139	B	TILE INSERT	0.175	0	.015	1.885E 06	3.131E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.6	1318	29.48	29.98	30.00	.52	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0575	2.568	3830	5.038E-05	7.705E-08	2.505E 06	2.609E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.345	2.455	13.967	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.56	.185	584.48	9.028E-04	.0346	1.102E-03	.0422	1.239E-03	.0475	1.073E-03	.0411
9.95	.192	687.55	3.280E-03	.1257	4.147E-03	.1589	4.778E-03	.1831	4.015E-03	.1539
10.33	.200	707.48	3.876E-03	.1485	4.943E-03	.1894	5.732E-03	.2197	4.780E-03	.1832
10.71	.207	719.62	4.255E-03	.1631	5.458E-03	.2092	6.356E-03	.2436	5.273E-03	.2021
11.10	.214	734.98	4.754E-03	.1822	6.143E-03	.2354	7.195E-03	.2757	5.929E-03	.2272
11.48	.222	745.05	5.095E-03	.1953	6.618E-03	.2538	7.761E-03	.2982	6.382E-03	.2446
11.85	.229	758.53	5.568E-03	.2134	7.284E-03	.2792	8.612E-03	.3300	7.017E-03	.2689
12.23	.236	769.64	5.973E-03	.2289	7.864E-03	.3014	9.343E-03	.3581	7.562E-03	.2900
12.60	.244	779.18	6.335E-03	.2428	8.387E-03	.3214	1.001E-02	.3835	8.063E-03	.3090
12.98	.251	785.78	6.593E-03	.2526	8.764E-03	.3358	1.049E-02	.4021	8.420E-03	.3227
13.35	.258	788.96	6.719E-03	.2575	8.950E-03	.3430	1.073E-02	.4112	8.596E-03	.3294
13.72	.265	793.52	6.904E-03	.2646	9.222E-03	.3534	1.108E-02	.4247	8.854E-03	.3393
14.08	.272	797.94	7.086E-03	.2716	9.493E-03	.3638	1.144E-02	.4382	9.110E-03	.3491
14.45	.279	800.51	7.193E-03	.2757	9.653E-03	.3699	1.164E-02	.4462	9.261E-03	.3549
14.81	.286	801.11	7.219E-03	.2766	9.691E-03	.3714	1.169E-02	.4481	9.297E-03	.3563
15.17	.293	801.59	7.239E-03	.2774	9.721E-03	.3725	1.173E-02	.4496	9.326E-03	.3574
15.53	.300	802.33	7.270E-03	.2786	9.768E-03	.3743	1.179E-02	.4520	9.369E-03	.3591
15.89	.307	802.17	7.264E-03	.2784	9.758E-03	.3740	1.178E-02	.4515	9.360E-03	.3587
16.25	.314	803.46	7.319E-03	.2805	9.841E-03	.3771	1.189E-02	.4556	9.438E-03	.3617
16.60	.321	807.62	7.498E-03	.2873	1.011E-02	.3874	1.224E-02	.4691	9.691E-03	.3714
16.96	.328	808.98	7.557E-03	.2896	1.020E-02	.3908	1.236E-02	.4736	9.776E-03	.3746

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
139	8	TILE INSERT	0.175	0	.015	1.885E 06	3.131E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.6	1318	29.48	29.98	30.00	.52	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0575	2.568	3830	5.038E-05	7.705E-08	2.505E 06	2.609E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.345	2.455	13.967	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	809.94	7.555E-03	.2895	1.020E-02	.3907	1.236E-02	.4735	9.773E-03	.3745
17.66	.341	809.56	7.583E-03	.2906	1.024E-02	.3923	1.241E-02	.4756	9.813E-03	.3760
18.01	.348	811.05	7.604E-03	.2914	1.027E-02	.3936	1.245E-02	.4772	9.843E-03	.3772
18.35	.355	809.69	7.589E-03	.2908	1.025E-02	.3927	1.242E-02	.4760	9.821E-03	.3764
18.70	.361	811.71	7.633E-03	.2925	1.031E-02	.3952	1.251E-02	.4794	9.884E-03	.3788
19.04	.368	811.42	7.663E-03	.2937	1.036E-02	.3970	1.257E-02	.4818	9.927E-03	.3804
19.38	.375	809.05	7.561E-03	.2898	1.021E-02	.3911	1.237E-02	.4740	9.782E-03	.3749
19.72	.381	809.95	7.557E-03	.2896	1.020E-02	.3909	1.236E-02	.4736	9.776E-03	.3746
20.06	.388	811.37	7.662E-03	.2936	1.036E-02	.3969	1.257E-02	.4816	9.925E-03	.3803
20.39	.394	812.35	7.704E-03	.2952	1.042E-02	.3994	1.265E-02	.4849	9.985E-03	.3827
20.73	.401	812.97	7.731E-03	.2963	1.046E-02	.4010	1.271E-02	.4870	1.002E-02	.3842
21.06	.407	815.15	7.826E-03	.2999	1.061E-02	.4065	1.290E-02	.4943	1.016E-02	.3894
21.39	.413	813.92	7.773E-03	.2979	1.053E-02	.4034	1.279E-02	.4902	1.008E-02	.3864
21.72	.420	812.18	7.698E-03	.2950	1.041E-02	.3990	1.264E-02	.4844	9.976E-03	.3823
22.05	.426	812.20	7.698E-03	.2950	1.041E-02	.3991	1.264E-02	.4845	9.977E-03	.3824
22.37	.432	814.12	7.782E-03	.2982	1.054E-02	.4039	1.281E-02	.4909	1.010E-02	.3869
22.69	.439	814.04	7.779E-03	.2981	1.053E-02	.4037	1.280E-02	.4907	1.009E-02	.3868
23.02	.445	811.10	7.652E-03	.2932	1.034E-02	.3963	1.255E-02	.4809	9.911E-03	.3798
23.34	.451	812.21	7.700E-03	.2951	1.042E-02	.3991	1.264E-02	.4846	9.979E-03	.3824
23.65	.457	813.96	7.776E-03	.2980	1.053E-02	.4035	1.280E-02	.4904	1.009E-02	.3866
23.97	.463	812.79	7.725E-03	.2960	1.045E-02	.4006	1.269E-02	.4865	1.002E-02	.3838
24.29	.469	811.38	7.6[illegible]E-03	.2930	1.03[illegible]E-02	.3945	1.248E-02	.4784	9.866E-03	.3781

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
139	8	TILE INSERT	0.175	0	.015	1.885E 06	3.131E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.6	1318	29.48	29.98	30.00	.52	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0575	2.568	3830	5.038E-05	7.705E-08	2.505E 06	2.609E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.345	2.455	13.967	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	811.59	7.674E-03	.2941	1.038E-02	.3976	1.259E-02	.4825	9.942E-03	.3810
24.91	.482	804.39	7.535E-03	.2888	1.017E-02	.3896	1.232E-02	.4719	9.745E-03	.3734
25.22	.487	805.86	7.426E-03	.2846	1.000E-02	.3832	1.210E-02	.4636	9.589E-03	.3675
25.53	.493	799.39	7.152E-03	.2741	9.590E-03	.3675	1.156E-02	.4430	9.201E-03	.3526
25.83	.499	696.39	3.541E-03	.1357	4.494E-03	.1722	5.192E-03	.1990	4.349E-03	.1667

NASA/RI 0H69
V41H-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
139	B	TILE INSERT	0.175	0	.015	1.885E 06	3.131E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.6	1318	29.48	29.98	30.00	.52	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0575	2.568	3830	5.038E-05	7.705E-08	2.505E 06	2.609E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
15.345	2.455	13.967	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.077	535.17	534.61	530.58	532.30	532.74	533.13	533.40	533.66	530.55	531.09
2.073	539.16	539.10	533.25	534.58	534.05	533.87	533.90	533.96	531.31	531.99
3.070	542.01	542.22	535.41	536.47	535.20	534.52	534.40	534.31	532.08	532.84
4.066	544.54	544.77	537.27	538.18	536.24	535.17	534.85	534.73	532.75	533.64
5.063	546.77	546.97	538.92	539.72	537.24	535.79	535.29	535.05	533.55	534.54
6.060	548.76	548.93	540.39	541.19	538.18	536.38	535.73	535.38	534.45	535.47
7.056	550.60	550.63	541.78	542.54	539.19	536.92	536.15	535.76	535.34	536.37
8.053	552.26	552.20	543.04	543.86	540.10	537.51	536.56	536.12	536.10	537.26
9.049	553.78	553.81	544.28	545.10	541.04	538.07	536.97	536.47	536.77	537.88
10.046	555.29	555.23	545.45	546.30	541.93	538.66	537.36	536.80	537.57	538.78
11.042	556.72	556.60	546.50	547.47	542.81	539.19	537.74	537.12	538.55	539.62
12.039	558.14	557.88	547.59	548.56	543.72	539.78	538.15	537.48	539.40	540.60
13.036	559.39	559.13	548.67	549.66	544.57	540.34	538.54	537.80	540.11	541.27
13.950	560.40	560.26	549.75	550.63	545.39	540.90	538.95	538.15	540.83	542.03
14.032	560.49	560.34	549.84	550.72	545.45	540.95	538.95	538.18	540.92	541.98
15.029	561.39	561.53	550.83	551.45	546.30	541.51	539.39	538.51	541.63	542.92
16.025	562.17	562.63	551.80	552.26	547.12	542.10	539.81	538.83	542.56	543.81
17.022	562.95	563.76	552.82	553.34	548.29	542.69	540.28	539.22	543.36	544.70

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0869
V416-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
139	B	TILE INSERT	0.175	0	.015	1.885E 06	3.131E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.6	1318	29.48	29.98	30.00	.52	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0575	2.568	3830	5.038E-05	7.705E-08	2.505E 06	2.609E-02	77

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
15.345	2.455	13.967	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
1.804	1
6.508	2
13.831	3

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OH69
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
140	8	TILE INSERT	0.175	0	.015	1.884E 06	3.129E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.6	1318	39.23	39.99	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0575	2.568	3831	5.037E-05	7.708E-08	2.503E 06	2.610E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.780	2.464	10.396	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	569.68	6.740E-04	.0258	8.181E-04	.0313	9.160E-04	.0351	7.626E-04	.0292
8.15	.158	586.53	1.041E-03	.0399	1.269E-03	.0486	1.426E-03	.0546	1.181E-03	.0453
8.60	.166	597.39	1.291E-03	.0495	1.579E-03	.0605	1.779E-03	.0682	1.468E-03	.0562
9.05	.175	615.99	1.744E-03	.0668	2.147E-03	.0823	2.427E-03	.0930	1.990E-03	.0763
9.49	.183	725.00	5.177E-03	.1984	6.656E-03	.2551	7.766E-03	.2976	6.067E-03	.2325
9.93	.192	733.51	5.500E-03	.2108	7.101E-03	.2721	8.311E-03	.3185	6.461E-03	.2476
10.37	.200	729.69	5.354E-03	.2052	6.900E-03	.2644	8.064E-03	.3090	6.283E-03	.2408
10.81	.209	754.87	6.348E-03	.2433	8.288E-03	.3176	9.782E-03	.3748	7.508E-03	.2877
11.24	.217	771.44	7.048E-03	.2701	9.287E-03	.3559	1.104E-02	.4231	8.381E-03	.3212
11.67	.226	787.69	7.772E-03	.2978	1.034E-02	.3963	1.239E-02	.4747	9.296E-03	.3562
12.10	.234	800.41	8.379E-03	.3211	1.124E-02	.4308	1.356E-02	.5195	1.007E-02	.3859
12.52	.242	807.03	8.707E-03	.3336	1.173E-02	.4496	1.420E-02	.5441	1.049E-02	.4021
12.94	.250	813.49	8.881E-03	.3403	1.200E-02	.4597	1.455E-02	.5574	1.072E-02	.4107
13.36	.258	811.81	8.947E-03	.3429	1.210E-02	.4635	1.468E-02	.5625	1.080E-02	.4140
13.78	.266	811.98	8.956E-03	.3432	1.211E-02	.4640	1.470E-02	.5632	1.081E-02	.4144
14.19	.274	815.69	9.143E-03	.3503	1.239E-02	.4749	1.507E-02	.5777	1.106E-02	.4237
14.60	.282	817.93	9.255E-03	.3546	1.257E-02	.4815	1.530E-02	.5864	1.120E-02	.4293
15.01	.290	817.73	9.246E-03	.3543	1.255E-02	.4810	1.529E-02	.5857	1.119E-02	.4288
15.41	.298	818.45	9.283E-03	.3557	1.261E-02	.4832	1.536E-02	.5886	1.124E-02	.4307
15.81	.306	819.62	9.343E-03	.3580	1.270E-02	.4867	1.548E-02	.5933	1.132E-02	.4337
16.21	.313	818.94	9.308E-03	.3567	1.265E-02	.4847	1.541E-02	.5906	1.127E-02	.4320

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
140	8	TILE INSERT	0.175	0	.015	1.884E 06	3.129E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.6	1318	39.23	39.99	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0575	2.568	3831	5.037E-05	7.708E-08	2.503E 06	2.610E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.780	2.464	10.396	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.61	.321	819.34	9.329E-03	.3575	1.268E-02	.4859	1.546E-02	.5923	1.130E-02	.4330
17.00	.329	823.54	9.546E-03	.3658	1.301E-02	.4987	1.590E-02	.6094	1.158E-02	.4438
17.39	.336	823.44	9.540E-03	.3656	1.300E-02	.4983	1.589E-02	.6089	1.157E-02	.4435
17.77	.344	823.78	9.557E-03	.3662	1.303E-02	.4994	1.593E-02	.6103	1.160E-02	.4444
18.16	.351	824.21	9.580E-03	.3671	1.307E-02	.5007	1.597E-02	.6121	1.163E-02	.4456
18.54	.358	824.22	9.581E-03	.3671	1.307E-02	.5008	1.598E-02	.6122	1.163E-02	.4456
18.92	.366	823.56	9.547E-03	.3658	1.302E-02	.4988	1.591E-02	.6095	1.158E-02	.4439
19.29	.373	824.33	9.587E-03	.3674	1.308E-02	.5012	1.599E-02	.6127	1.164E-02	.4459
19.66	.380	822.67	9.502E-03	.3641	1.295E-02	.4961	1.581E-02	.6059	1.152E-02	.4416
20.03	.387	822.44	9.490E-03	.3637	1.293E-02	.4954	1.579E-02	.6050	1.151E-02	.4410
20.40	.394	824.48	9.596E-03	.3677	1.309E-02	.5016	1.601E-02	.6134	1.165E-02	.4463
20.76	.401	826.10	9.680E-03	.3709	1.322E-02	.5067	1.618E-02	.6201	1.176E-02	.4506
21.12	.408	827.44	9.750E-03	.3736	1.333E-02	.5108	1.633E-02	.6257	1.185E-02	.4541
21.48	.415	827.74	9.765E-03	.3742	1.335E-02	.5118	1.636E-02	.6270	1.187E-02	.4549
21.84	.422	824.06	9.575E-03	.3669	1.306E-02	.5004	1.596E-02	.6117	1.162E-02	.4453
22.19	.429	823.65	9.554E-03	.3661	1.303E-02	.4992	1.592E-02	.6100	1.159E-02	.4443
22.54	.436	826.36	9.695E-03	.3715	1.324E-02	.5075	1.621E-02	.6213	1.178E-02	.4513
22.88	.442	828.93	9.725E-03	.3727	1.329E-02	.5093	1.628E-02	.6237	1.182E-02	.4528
23.23	.449	824.11	9.579E-03	.3671	1.306E-02	.5006	1.597E-02	.6120	1.163E-02	.4455
23.57	.456	825.23	9.637E-03	.3693	1.315E-02	.5041	1.609E-02	.6166	1.170E-02	.4484
23.91	.462	826.53	9.705E-03	.3719	1.326E-02	.5081	1.623E-02	.6220	1.179E-02	.4518
24.24	.469	824.75	9.613E-03	.3684	1.312E-02	.5027	1.604E-02	.6147	1.167E-02	.4472

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
140	8	TILE INSERT	0.175	0	.015	1.884E 06	3.129E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.6	1318	39.23	39.99	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT. (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0575	2.568	3831	5.037E-05	7.708E-08	2.503E 06	2.610E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.760	2.464	10.396	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	823.33	9.540E-03	.3656	1.300E-02	.4983	1.589E-02	.6089	1.157E-02	.4435
24.90	.481	826.38	9.698E-03	.3716	1.325E-02	.5077	1.622E-02	.6215	1.178E-02	.4515
25.23	.488	823.98	9.522E-03	.3649	1.298E-02	.4973	1.585E-02	.6074	1.155E-02	.4426
25.55	.494	823.83	9.413E-03	.3607	1.281E-02	.4908	1.562E-02	.5987	1.141E-02	.4371
25.87	.500	810.61	8.896E-03	.3409	1.202E-02	.4605	1.457E-02	.5585	1.074E-02	.4114

NASA/FI 0H69
V418-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
140	8	TILE INSERT	0.175	0	.015	1.884E 06	3.129E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.6	1318	39.23	39.99	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0575	2.568	3831	5.037E-05	7.708E-08	2.503E 06	2.610E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.780	2.464	10.396	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.091	532.42	531.94	529.57	529.66	529.66	529.48	529.69	529.87	526.47	528.62
2.077	536.44	536.53	532.57	532.24	531.23	530.40	530.25	530.19	529.07	531.58
3.074	539.36	539.63	534.91	534.31	532.60	531.20	530.88	530.64	531.31	534.31
4.070	541.78	542.13	536.83	536.12	533.81	532.00	531.44	531.05	533.64	536.86
5.067	543.92	544.28	538.57	537.71	534.94	532.71	531.94	531.50	536.05	539.49
6.064	545.83	546.18	540.13	539.22	535.97	533.40	532.45	531.91	538.29	541.76
7.060	547.56	547.94	541.63	540.60	536.97	534.08	532.95	532.36	540.34	543.94
8.057	549.17	549.55	543.01	541.90	537.98	534.70	533.40	532.77	542.52	546.07
9.053	550.68	551.04	544.33	543.13	538.89	535.32	533.84	533.13	544.65	548.34
10.050	552.03	552.50	545.54	544.30	539.84	535.91	534.31	533.51	546.87	550.46
10.379	552.47	552.90	545.95	544.72	540.13	536.12	534.46	533.69	547.45	551.13
11.046	553.31	553.81	546.71	545.45	540.72	536.53	534.76	533.90	548.96	552.68
12.043	554.54	555.06	547.97	546.53	541.60	537.15	535.20	534.31	550.91	554.58
13.040	555.61	556.19	549.08	547.59	542.45	537.74	535.64	534.70	553.03	556.70
14.036	556.54	557.38	550.19	548.61	543.28	538.36	536.12	535.05	555.15	558.73

NASA/RI 0H69
V41B-E9A

AEDC (ARO, INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
140	8	TILE INSERT	0.175	0	.015	1.884E 06	3.129E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	556.6	1318	39.23	39.99	30.00	-9.23	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.7	.0575	2.568	3831	5.037E-05	7.708E-08	2.503E 06	2.610E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
11.760	2.464	10.396	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
1.561	1
5.035	2
10.474	3

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
141	B	TILE INSERT	0.175	0	.015	2.052E 06	3.409E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	609.0	1322	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0629	2.810	3836	5.495E-05	7.731E-08	2.727E 06	2.731E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.934	2.446	13.561	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.56	.185	625.88	1.759E-03	.0644	2.171E-03	.0795	2.459E-03	.0900	2.110E-03	.0772
9.95	.192	699.44	3.725E-03	.1364	4.729E-03	.1731	5.465E-03	.2001	4.576E-03	.1675
10.33	.200	717.49	4.287E-03	.1570	5.487E-03	.2009	6.379E-03	.2336	5.302E-03	.1941
10.71	.207	735.31	4.871E-03	.1783	6.288E-03	.2302	7.358E-03	.2694	6.069E-03	.2222
11.10	.214	751.88	5.442E-03	.1993	7.085E-03	.2594	8.344E-03	.3055	6.829E-03	.2500
11.48	.222	763.40	5.857E-03	.2145	7.673E-03	.2809	9.081E-03	.3325	7.389E-03	.2705
11.85	.229	774.35	6.268E-03	.2295	8.262E-03	.3025	9.825E-03	.3597	7.948E-03	.2910
12.23	.236	780.70	6.513E-03	.2385	8.617E-03	.3155	1.028E-02	.3763	8.285E-03	.3033
12.60	.244	789.88	6.878E-03	.2518	9.152E-03	.3351	1.096E-02	.4014	8.791E-03	.3219
12.98	.251	794.63	7.073E-03	.2590	9.439E-03	.3456	1.133E-02	.4150	9.062E-03	.3318
13.35	.258	797.43	7.189E-03	.2632	9.611E-03	.3519	1.156E-02	.4232	9.225E-03	.3378
13.72	.265	801.23	7.350E-03	.2691	9.850E-03	.3606	1.187E-02	.4346	9.451E-03	.3460
14.08	.272	804.25	7.479E-03	.2738	1.004E-02	.3677	1.212E-02	.4438	9.633E-03	.3527
14.45	.279	805.93	7.552E-03	.2765	1.015E-02	.3717	1.226E-02	.4490	9.736E-03	.3565
14.81	.286	805.56	7.535E-03	.2759	1.013E-02	.3708	1.223E-02	.4478	9.713E-03	.3556
15.17	.293	805.46	7.529E-03	.2757	1.012E-02	.3705	1.222E-02	.4474	9.704E-03	.3553
15.53	.300	805.89	7.550E-03	.2764	1.015E-02	.3716	1.226E-02	.4489	9.734E-03	.3564
15.89	.307	805.82	7.548E-03	.2763	1.015E-02	.3715	1.226E-02	.4487	9.730E-03	.3562
16.25	.314	806.68	7.585E-03	.2777	1.020E-02	.3735	1.233E-02	.4514	9.783E-03	.3582
16.60	.321	810.63	7.758E-03	.2840	1.046E-02	.3831	1.267E-02	.4639	1.003E-02	.3672
16.96	.328	811.53	7.797E-03	.2855	1.052E-02	.3852	1.275E-02	.4668	1.008E-02	.3692

NASA/RI 0H69
V41H-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
141	8	TILE INSERT	0.175	0	.015	2.052E 06	3.409E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	609.0	1322	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0629	2.810	3836	5.495E-05	7.731E-08	2.727E 06	2.731E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.934	2.446	13.561	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	R11.28	7.786E-03	.2851	1.051E-02	.3846	1.273E-02	.4660	1.007E-02	.3687
17.66	.341	R11.94	7.815E-03	.2861	1.055E-02	.3862	1.279E-02	.4681	1.011E-02	.3702
18.01	.348	R12.54	7.841E-03	.2871	1.059E-02	.3877	1.284E-02	.4700	1.015E-02	.3715
18.35	.355	R12.57	7.843E-03	.2871	1.059E-02	.3878	1.284E-02	.4701	1.015E-02	.3716
18.70	.361	R13.43	7.880E-03	.2885	1.065E-02	.3899	1.292E-02	.4729	1.020E-02	.3736
19.04	.368	R13.84	7.898E-03	.2892	1.068E-02	.3909	1.295E-02	.4742	1.023E-02	.3745
19.38	.375	R11.63	7.802E-03	.2857	1.053E-02	.3855	1.276E-02	.4672	1.009E-02	.3695
19.72	.381	R11.29	7.788E-03	.2851	1.051E-02	.3847	1.273E-02	.4661	1.007E-02	.3687
20.06	.388	R13.18	7.870E-03	.2882	1.063E-02	.3893	1.290E-02	.4721	1.019E-02	.3730
20.39	.394	R14.70	7.937E-03	.2906	1.073E-02	.3930	1.303E-02	.4771	1.028E-02	.3765
20.73	.401	R15.13	7.999E-03	.2929	1.083E-02	.3965	1.316E-02	.4817	1.037E-02	.3798
21.06	.407	R18.01	8.082E-03	.2959	1.096E-02	.4011	1.332E-02	.4879	1.049E-02	.3842
21.39	.413	R15.74	7.983E-03	.2923	1.080E-02	.3956	1.312E-02	.4805	1.035E-02	.3789
21.72	.420	R14.57	7.932E-03	.2904	1.073E-02	.3927	1.302E-02	.4767	1.028E-02	.3763
22.05	.426	R15.01	7.951E-03	.2911	1.076E-02	.3938	1.306E-02	.4781	1.030E-02	.3773
22.37	.432	R16.83	8.031E-03	.2941	1.088E-02	.3983	1.322E-02	.4840	1.042E-02	.3815
22.69	.439	R15.65	7.979E-03	.2922	1.080E-02	.3954	1.312E-02	.4802	1.034E-02	.3788
23.02	.445	R13.59	7.890E-03	.2889	1.066E-02	.3904	1.293E-02	.4736	1.022E-02	.3741
23.34	.451	R15.16	7.959E-03	.2914	1.077E-02	.3942	1.307E-02	.4787	1.031E-02	.3777
23.65	.457	R16.78	8.030E-03	.2940	1.088E-02	.3982	1.322E-02	.4839	1.042E-02	.3814
23.97	.463	R15.66	7.981E-03	.2922	1.080E-02	.3954	1.312E-02	.4803	1.035E-02	.3788
24.29	.469	R13.97	7.907E-03	.2895	1.069E-02	.3913	1.297E-02	.4748	1.024E-02	.3750

NASA/RI 0H62
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
141	8	TILE INSERT	0.175	0	.015	2.052E 06	3.409E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	609.0	1322	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0629	2.810	3836	5.495E-05	7.731E-08	2.727E 06	2.731E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.934	2.446	13.561	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	815.74	7.985E-03	.2924	1.081E-02	.3957	1.313E-02	.4806	1.035E-02	.3791
24.91	.482	813.38	7.882E-03	.2886	1.065E-02	.3899	1.292E-02	.4730	1.020E-02	.3736
25.22	.487	810.58	7.759E-03	.2841	1.046E-02	.3831	1.267E-02	.4640	1.003E-02	.3672
25.53	.493	804.79	7.508E-03	.2749	1.009E-02	.3693	1.218E-02	.4458	9.673E-03	.3542
25.83	.499	708.42	4.005E-03	.1466	5.105E-03	.1869	5.917E-03	.2166	4.936E-03	.1807
29.37	.568	564.93	5.910E-04	.0216	7.169E-04	.0262	8.023E-04	.0294	6.984E-04	.0256

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
141	8	TILE INSERT	0.175	0	.015	2.052E 06	3.409E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	609.0	1322	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG F)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0629	2.810	3836	5.495E-05	7.731E-08	2.727E 06	2.731E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
14.934	2.446	13.561	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.073	526.44	525.49	522.71	522.89	523.07	523.10	523.40	523.79	525.21	526.11
2.069	530.72	530.25	529.64	525.31	524.35	523.85	523.94	524.06	526.29	527.14
3.066	533.98	533.63	527.93	527.39	525.61	524.56	524.47	524.44	527.19	528.31
4.062	536.64	536.38	529.95	529.18	526.77	525.25	524.95	524.83	528.13	529.30
5.059	539.03	538.68	531.79	530.87	527.87	525.90	525.43	525.25	528.94	530.24
6.056	541.16	540.80	533.45	532.41	528.91	526.53	525.85	525.61	529.79	531.31
7.052	543.13	542.71	535.02	533.86	529.92	527.16	526.32	525.93	530.91	532.30
8.049	544.95	544.51	536.53	535.28	530.93	527.75	526.74	526.32	531.94	533.37
9.045	546.65	546.15	537.85	536.61	531.91	528.38	527.16	526.71	532.84	534.36
10.042	548.23	547.67	539.06	537.88	532.89	529.00	527.57	527.07	533.69	535.12
11.038	549.69	549.16	540.18	539.12	533.84	529.59	528.02	527.39	534.63	536.14
12.035	551.12	550.36	541.16	540.33	534.78	530.19	528.46	527.72	535.70	537.13
13.032	552.43	551.35	542.21	541.48	535.70	530.81	528.91	528.14	536.64	538.15
13.544	553.04	551.94	542.77	542.07	536.17	531.14	529.12	528.35	537.04	538.64
14.028	553.63	552.55	543.30	542.63	536.64	531.43	529.33	528.52	537.44	539.04
15.025	554.73	553.77	544.30	543.71	537.50	532.06	529.80	528.88	538.29	539.76
16.021	555.75	554.73	545.21	544.71	538.30	532.65	530.22	529.21	539.31	540.92
17.018	556.65	555.78	546.15	545.80	538.95	533.27	530.69	529.59	540.34	541.81

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
141	8	TILE INSERT	0.175	0	.015	2.052E 06	3.409E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	609.0	1322	29.45	30.00	30.00	.55	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0629	2.810	3836	5.495E-05	7.731E-08	2.727E 06	2.731E-02	74

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
14.934	2.446	13.561	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
1.973	1
5.960	2
13.493	3

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
142	8	TILE INSERT	0.175	0	.015	2.056E 06	3.416E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	610.1	1322	39.17	40.00	30.00	-9.17	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0630	2.816	3836	5.506E-05	7.729E-08	2.733E 06	2.734E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.253	2.455	8.874	1000

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.24	.140	564.09	6.010E-04	.0220	7.280E-04	.0266	8.140E-04	.0298	6.792E-04	.0248
7.69	.149	582.03	1.012E-03	.0370	1.233E-03	.0451	1.383E-03	.0506	1.148E-03	.0420
8.15	.158	593.77	1.274E-03	.0466	1.556E-03	.0569	1.749E-03	.0640	1.447E-03	.0529
8.60	.166	609.64	1.707E-03	.0624	2.096E-03	.0767	2.366E-03	.0865	1.945E-03	.0712
9.05	.175	691.40	4.278E-03	.1565	5.413E-03	.1980	6.240E-03	.2283	4.964E-03	.1816
9.49	.183	747.27	6.496E-03	.2376	8.437E-03	.3086	9.919E-03	.3629	7.658E-03	.2801
9.93	.192	731.98	5.854E-03	.2141	7.544E-03	.2760	8.818E-03	.3226	6.869E-03	.2513
10.37	.200	766.13	7.332E-03	.2682	9.620E-03	.3519	1.140E-02	.4170	8.696E-03	.3181
10.81	.209	781.63	8.015E-03	.2932	1.061E-02	.3880	1.265E-02	.4627	9.554E-03	.3495
11.24	.217	791.22	8.536E-03	.3123	1.137E-02	.4159	1.363E-02	.4986	1.021E-02	.3737
11.67	.226	800.07	8.990E-03	.3289	1.204E-02	.4405	1.450E-02	.5305	1.079E-02	.3949
12.10	.234	806.81	9.347E-03	.3419	1.257E-02	.4600	1.520E-02	.5560	1.125E-02	.4116
12.52	.242	810.08	9.524E-03	.3484	1.284E-02	.4697	1.555E-02	.5688	1.148E-02	.4200
12.94	.250	811.84	9.618E-03	.3519	1.298E-02	.4750	1.574E-02	.5757	1.160E-02	.4244
13.36	.258	811.03	9.576E-03	.3503	1.292E-02	.4726	1.565E-02	.5725	1.155E-02	.4224
13.78	.266	814.37	9.755E-03	.3569	1.319E-02	.4826	1.601E-02	.5857	1.178E-02	.4309
14.19	.274	818.25	9.966E-03	.3646	1.351E-02	.4943	1.644E-02	.6013	1.205E-02	.4409
14.60	.282	818.26	9.967E-03	.3646	1.351E-02	.4944	1.644E-02	.6014	1.205E-02	.4410
15.01	.290	818.25	9.967E-03	.3646	1.351E-02	.4944	1.644E-02	.6014	1.205E-02	.4409
15.41	.298	819.80	1.005E-02	.3677	1.364E-02	.4991	1.661E-02	.6078	1.216E-02	.4450
15.81	.306	819.95	1.006E-02	.3680	1.366E-02	.4996	1.663E-02	.6084	1.218E-02	.4454

NASA/RI 0H69
V41H-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
142	8	TILE INSERT	0.175	0	.015	2.056E 06	3.416E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	610.1	1322	39.17	40.00	30.00	-9.17	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0630	2.816	3836	5.506E-05	7.729E-08	2.733E 06	2.734E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
10.253	2.455	8.874	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
16.21	.313	819.40	1.003E-02	.3669	1.361E-02	.4979	1.657E-02	.6061	1.214E-02	.4440
16.61	.321	822.78	1.022E-02	.3737	1.390E-02	.5084	1.695E-02	.6201	1.238E-02	.4528
17.00	.329	824.17	1.029E-02	.3765	1.402E-02	.5127	1.711E-02	.6259	1.248E-02	.4565
17.39	.336	824.86	1.033E-02	.3780	1.408E-02	.5149	1.719E-02	.6289	1.253E-02	.4584
17.77	.344	825.41	1.036E-02	.3791	1.412E-02	.5166	1.725E-02	.6312	1.257E-02	.4598
18.16	.351	825.04	1.034E-02	.3783	1.409E-02	.5155	1.721E-02	.6297	1.254E-02	.4589
18.54	.358	824.78	1.033E-02	.3778	1.407E-02	.5147	1.718E-02	.6286	1.253E-02	.4582
18.92	.366	825.20	1.041E-02	.3807	1.419E-02	.5192	1.735E-02	.6346	1.263E-02	.4620
19.29	.373	824.96	1.034E-02	.3782	1.409E-02	.5153	1.721E-02	.6294	1.254E-02	.4587
19.66	.380	822.99	1.023E-02	.3743	1.392E-02	.5092	1.698E-02	.6212	1.240E-02	.4535
20.03	.387	825.75	1.038E-02	.3799	1.416E-02	.5178	1.730E-02	.6328	1.260E-02	.4609
20.40	.394	825.88	1.045E-02	.3822	1.425E-02	.5214	1.743E-02	.6376	1.268E-02	.4639
20.76	.401	827.69	1.049E-02	.3838	1.432E-02	.5243	1.753E-02	.6411	1.274E-02	.4661
21.12	.408	825.64	1.055E-02	.3858	1.441E-02	.5271	1.764E-02	.6452	1.281E-02	.4686
21.48	.415	826.28	1.041E-02	.3808	1.420E-02	.5193	1.735E-02	.6348	1.263E-02	.4621
21.84	.422	825.19	1.035E-02	.3788	1.411E-02	.5162	1.724E-02	.6305	1.256E-02	.4594
22.19	.429	826.17	1.041E-02	.3808	1.419E-02	.5193	1.735E-02	.6347	1.263E-02	.4621
22.54	.436	827.47	1.048E-02	.3835	1.431E-02	.5234	1.750E-02	.6402	1.273E-02	.4656
22.88	.442	825.66	1.038E-02	.3798	1.415E-02	.5177	1.729E-02	.6326	1.259E-02	.4607
23.23	.449	825.72	1.039E-02	.3799	1.416E-02	.5179	1.730E-02	.6329	1.260E-02	.4609
23.57	.456	827.65	1.049E-02	.3839	1.433E-02	.5240	1.752E-02	.6411	1.274E-02	.4661
23.91	.462	826.69	1.044E-02	.3819	1.424E-02	.5210	1.741E-02	.6370	1.267E-02	.4635

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
142	8	TILE INSERT	0.175	0	.015	2.056E 06	3.416E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	610.1	1322	39.17	40.00	30.00	-9.17	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0630	2.816	3836	5.506E-05	7.729E-08	2.733E 06	2.734E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.253	2.455	8.874	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.24	.469	823.83	1.028E-02	.3761	1.400E-02	.5120	1.708E-02	.6250	1.246E-02	.4560
24.57	.475	824.22	1.041E-02	.3810	1.420E-02	.5196	1.736E-02	.6351	1.264E-02	.4623
24.90	.481	825.61	1.038E-02	.3798	1.415E-02	.5176	1.729E-02	.6325	1.259E-02	.4607
25.23	.488	822.32	1.020E-02	.3731	1.387E-02	.5074	1.691E-02	.6187	1.236E-02	.4520
25.55	.494	817.17	9.918E-03	.3628	1.344E-02	.4916	1.634E-02	.5976	1.199E-02	.4386
25.87	.500	693.58	4.365E-03	.1597	5.528E-03	.2022	6.378E-03	.2333	5.068E-03	.1854

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI OHGO
V418-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
142	B	TILE INSERT	0.175	0	.015	2.056E 06	3.416E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	610.1	1322	39.17	40.00	30.00	-9.17	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0630	2.816	3836	5.506E-05	7.729E-08	2.733E 06	2.734E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
10.253	2.455	8.874	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.077	527.70	527.16	525.05	524.87	524.51	523.97	523.88	524.00	518.63	522.29
2.073	532.00	532.00	528.11	527.61	526.27	524.96	524.48	524.27	521.20	525.80
3.070	535.14	535.26	530.52	529.78	527.58	525.82	525.10	524.75	523.55	528.98
4.066	537.80	537.86	532.60	531.71	528.86	526.62	525.70	525.19	526.07	531.85
5.063	540.13	540.13	534.46	533.40	529.99	527.40	526.27	525.70	528.45	534.40
6.060	542.25	542.16	536.21	534.99	531.08	528.14	526.80	526.18	530.82	536.77
7.056	544.19	544.04	537.74	536.44	532.12	528.83	527.34	526.62	533.28	539.40
8.053	545.98	545.77	539.19	537.86	533.13	529.48	527.85	527.04	535.92	541.81
9.057	547.35	547.09	540.31	538.95	533.93	530.04	528.26	527.43	537.93	543.76
9.049	547.68	547.38	540.54	539.19	534.11	530.16	528.35	527.49	538.55	544.21
10.046	549.26	548.93	541.84	540.45	535.08	530.82	528.86	527.93	541.00	546.56
11.042	550.75	550.37	543.01	541.69	536.03	531.50	529.36	528.38	543.54	548.78
12.039	552.12	551.74	544.22	543.07	536.80	532.18	529.90	528.77	546.03	551.26
13.036	553.49	553.05	545.16	543.98	537.89	532.80	530.31	529.15	548.65	553.65

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
142	8	TILE INSERT	0.175	0	.015	2.056E 06	3.416E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.99	610.1	1322	39.17	40.00	30.00	-9.17	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
96.0	.0630	2.816	3836	5.506E-05	7.729E-08	2.733E 06	2.734E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
10.253	2.455	8.874	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
2.370	1
5.941	2
9.834	3

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
143	8	TILE INSERT	0.175	0	.015	1.676E 06	2.783E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	490.0	1312	29.54	29.98	30.00	.46	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.5	.0510	2.274	3821	4.481E-05	7.690E-08	2.227E 06	2.453E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.078	2.437	19.710	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.56	.185	615.02	1.230E-03	.0501	1.513E-03	.0617	1.709E-03	.0697	1.471E-03	.0599
9.95	.192	684.93	2.827E-03	.1152	3.575E-03	.1457	4.120E-03	.1679	3.462E-03	.1411
10.33	.200	706.05	3.365E-03	.1372	4.296E-03	.1751	4.984E-03	.2032	4.153E-03	.1693
10.71	.207	718.69	3.703E-03	.1509	4.755E-03	.1938	5.541E-03	.2259	4.593E-03	.1872
11.10	.214	734.44	4.142E-03	.1688	5.359E-03	.2184	6.282E-03	.2561	5.171E-03	.2108
11.48	.222	749.50	4.581E-03	.1867	5.974E-03	.2435	7.046E-03	.2872	5.757E-03	.2347
11.85	.229	754.77	4.739E-03	.1932	6.199E-03	.2526	7.327E-03	.2986	5.971E-03	.2434
12.23	.236	765.13	5.059E-03	.2062	6.656E-03	.2713	7.904E-03	.3221	6.406E-03	.2611
12.60	.244	775.42	5.389E-03	.2196	7.133E-03	.2907	8.510E-03	.3468	6.858E-03	.2795
12.98	.251	783.09	5.642E-03	.2300	7.504E-03	.3058	8.986E-03	.3663	7.209E-03	.2938
13.35	.258	787.90	5.806E-03	.2366	7.744E-03	.3157	9.297E-03	.3789	7.437E-03	.3031
13.72	.265	794.24	6.026E-03	.2456	8.071E-03	.3290	9.720E-03	.3962	7.745E-03	.3157
14.08	.272	798.97	6.193E-03	.2524	8.322E-03	.3392	1.005E-02	.4095	7.982E-03	.3253
14.45	.279	801.79	6.295E-03	.2566	8.475E-03	.3454	1.025E-02	.4177	8.126E-03	.3312
14.81	.286	802.40	6.318E-03	.2575	8.508E-03	.3468	1.029E-02	.4195	8.158E-03	.3325
15.17	.293	802.95	6.338E-03	.2583	8.539E-03	.3480	1.033E-02	.4211	8.187E-03	.3337
15.53	.300	803.73	6.366E-03	.2595	8.582E-03	.3498	1.039E-02	.4235	8.227E-03	.3353
15.89	.307	803.51	6.358E-03	.2592	8.569E-03	.3493	1.037E-02	.4228	8.216E-03	.3349
16.25	.314	805.27	6.423E-03	.2618	8.667E-03	.3533	1.050E-02	.4280	8.308E-03	.3386
16.60	.321	809.46	6.579E-03	.2682	8.904E-03	.3629	1.081E-02	.4408	8.530E-03	.3477
16.96	.328	810.64	6.623E-03	.2699	8.970E-03	.3656	1.090E-02	.4444	8.593E-03	.3502

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
143	8	TILE INSERT	0.175	0	.015	1.676E 06	2.783E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	490.0	1312	29.54	29.98	30.00	.46	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.5	.0510	2.274	3821	4.481E-05	7.690E-08	2.227E 06	2.453E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.078	2.437	19.710	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	810.61	6.622E-03	.2699	8.969E-03	.3656	1.090E-02	.4443	8.592E-03	.3502
17.66	.341	810.91	6.633E-03	.2704	8.986E-03	.3663	1.092E-02	.4452	8.608E-03	.3508
18.01	.348	810.91	6.633E-03	.2704	8.986E-03	.3663	1.092E-02	.4452	8.608E-03	.3508
18.35	.355	811.01	6.637E-03	.2705	8.992E-03	.3665	1.093E-02	.4455	8.613E-03	.3511
18.70	.361	812.24	6.683E-03	.2724	9.062E-03	.3693	1.102E-02	.4493	8.679E-03	.3537
19.04	.368	812.91	6.707E-03	.2734	9.099E-03	.3709	1.107E-02	.4514	8.714E-03	.3552
19.38	.375	813.47	6.617E-03	.2697	8.962E-03	.3653	1.089E-02	.4439	8.585E-03	.3499
19.72	.381	810.60	6.622E-03	.2699	8.969E-03	.3656	1.090E-02	.4443	8.592E-03	.3502
20.06	.388	812.53	6.693E-03	.2728	9.077E-03	.3700	1.104E-02	.4502	8.694E-03	.3543
20.39	.394	813.95	6.746E-03	.2750	9.159E-03	.3733	1.115E-02	.4546	8.771E-03	.3575
20.73	.401	814.70	6.775E-03	.2761	9.203E-03	.3751	1.121E-02	.4570	8.811E-03	.3591
21.06	.407	816.75	6.851E-03	.2793	9.320E-03	.3799	1.137E-02	.4634	8.922E-03	.3637
21.39	.413	815.32	6.798E-03	.2771	9.238E-03	.3765	1.126E-02	.4589	8.845E-03	.3605
21.72	.420	813.52	6.731E-03	.2744	9.136E-03	.3724	1.112E-02	.4533	8.749E-03	.3566
22.05	.426	813.37	6.726E-03	.2741	9.127E-03	.3720	1.111E-02	.4529	8.741E-03	.3563
22.37	.432	815.30	6.798E-03	.2771	9.238E-03	.3765	1.126E-02	.4589	8.845E-03	.3605
22.69	.439	814.81	6.779E-03	.2763	9.210E-03	.3754	1.122E-02	.4574	8.818E-03	.3594
23.02	.445	812.57	6.696E-03	.2729	9.082E-03	.3702	1.105E-02	.4504	8.698E-03	.3545
23.34	.451	813.94	6.747E-03	.2750	9.160E-03	.3734	1.115E-02	.4547	8.772E-03	.3575
23.65	.457	815.61	6.810E-03	.2776	9.256E-03	.3773	1.128E-02	.4599	8.862E-03	.3612
23.97	.463	814.48	6.768E-03	.2758	9.191E-03	.3746	1.120E-02	.4564	8.801E-03	.3587
24.29	.469	812.79	6.705E-03	.2733	9.095E-03	.3707	1.107E-02	.4511	8.711E-03	.3550

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
143	8	TILE INSERT	0.175	0	.015	1.676E 06	2.783E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	490.0	1312	29.54	29.98	30.00	.46	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.5	.0510	2.274	3821	4.481E-05	7.690E-08	2.227E 06	2.453E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.078	2.437	19.710	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	814.24	6.759E-03	.2755	9.178E-03	.3741	1.118E-02	.4556	8.788E-03	.3582
24.91	.482	810.88	6.634E-03	.2704	8.987E-03	.3663	1.092E-02	.4453	8.609E-03	.3509
25.22	.487	808.58	6.549E-03	.2669	8.857E-03	.3610	1.075E-02	.4382	8.487E-03	.3459
25.53	.493	801.93	6.304E-03	.2569	8.487E-03	.3459	1.026E-02	.4183	8.138E-03	.3317
25.83	.499	685.66	2.847E-03	.1160	3.602E-03	.1468	4.152E-03	.1692	3.487E-03	.1421
29.37	.568	567.28	5.133E-04	.0209	6.230E-04	.0254	6.976E-04	.0284	6.070E-04	.0247

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
143	8	TILE INSERT	0.175	0	.015	1.676E 06	2.783E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	490.0	1312	29.54	29.98	30.00	.46	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.5	.0510	2.274	3821	4.481E-05	7.690E-08	2.227E 06	2.453E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.078	2.437	19.710	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.069	513.75	512.63	510.58	510.25	510.07	509.74	509.77	509.98	524.18	524.72
2.065	517.84	516.91	513.45	512.48	511.43	510.49	510.28	510.31	524.85	525.48
3.062	520.89	519.96	515.52	514.32	512.54	511.16	510.76	510.67	525.35	526.20
4.058	523.43	522.42	517.30	515.94	513.60	511.76	511.22	511.01	526.11	526.96
5.055	525.67	524.57	519.01	517.48	514.50	512.33	511.64	511.34	526.87	527.73
6.052	527.70	526.51	520.62	518.89	515.49	512.91	512.06	511.67	527.64	528.71
7.048	529.54	528.29	522.12	520.23	516.46	513.48	512.42	512.00	528.31	529.34
8.045	531.26	529.93	523.52	521.52	517.27	514.02	512.81	512.33	528.89	530.02
9.041	532.83	531.47	524.84	522.75	518.14	514.56	513.21	512.63	529.57	530.73
10.038	534.34	532.89	526.06	523.91	518.89	515.10	513.57	512.91	530.37	531.40
11.034	535.76	534.25	527.22	525.05	519.69	515.64	513.96	513.24	531.09	532.17
12.031	537.09	535.56	528.35	526.12	520.53	516.21	514.35	513.57	531.63	532.79
13.028	538.33	536.77	529.42	527.16	521.31	516.76	514.71	513.87	532.17	533.24
14.024	539.54	537.95	530.43	528.17	522.12	517.30	515.10	514.14	532.97	534.09
15.021	540.69	539.07	531.38	529.15	522.90	517.84	515.49	514.44	533.73	534.76
16.017	541.78	540.13	532.33	530.10	523.67	518.38	515.88	514.80	534.36	535.43
17.014	542.87	541.19	533.25	531.02	524.45	518.95	516.27	515.16	534.89	536.01
18.010	543.86	542.16	534.17	531.94	525.19	519.49	516.70	515.46	535.56	536.64
19.007	544.86	543.13	534.96	532.80	525.94	520.02	517.09	515.79	536.23	537.39
19.693	545.54	543.78	535.53	533.40	526.48	520.41	517.39	516.03	536.64	537.80
20.004	545.83	544.10	535.70	533.66	526.71	520.56	517.54	516.12	536.90	538.20

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
143	8	TILE INSERT	0.175	0	.015	1.676E 06	2.783E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	490.0	1312	29.54	29.98	30.00	.46	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.5	.0510	2.274	3821	4.481E-05	7.690E-08	2.227E 06	2.453E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.078	2.437	19.710	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.000	546.74	544.95	536.32	534.49	527.46	521.16	517.96	516.49	537.57	538.78
21.997	547.62	545.80	537.09	535.38	528.20	521.70	518.38	516.85	538.06	539.36
22.993	548.47	546.68	537.86	536.09	528.89	522.27	518.80	517.18	538.73	539.94

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
143	B	TILE INSERT	0.175	0	.015	1.676E 06	2.783E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	490.0	1312	29.54	29.98	30.00	.46	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.5	.0510	2.274	3821	4.481E-05	7.690E-08	2.227E 06	2.453E-02	71

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
21.078	2.437	19.710	1000

PHOTOGRAPH-TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
1.722	1
7.130	2
19.624	3

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
144	8	TILE INSERT	0.175	0	.015	1.678E 06	2.787E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	489.8	1310	39.32	39.99	30.00	-9.32	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0510	2.273	3819	4.485E-05	7.680E-08	2.230E 06	2.452E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.959	2.464	11.576	1000

X (IN)	X/L	Tw (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
7.69	.149	573.77	7.652E-04	.0312	9.308E-04	.0380	1.044E-03	.0426	8.670E-04	.0354
8.15	.158	585.87	1.020E-03	.0416	1.246E-03	.0508	1.400E-03	.0571	1.159E-03	.0472
8.60	.166	604.27	1.433E-03	.0584	1.759E-03	.0717	1.986E-03	.0810	1.633E-03	.0666
9.05	.175	717.12	4.737E-03	.1932	6.080E-03	.2479	7.084E-03	.2889	5.545E-03	.2261
9.49	.183	713.58	4.612E-03	.1881	5.910E-03	.2410	6.878E-03	.2804	5.394E-03	.2199
9.93	.192	713.05	4.594E-03	.1873	5.885E-03	.2400	6.848E-03	.2792	5.372E-03	.2190
10.37	.200	728.30	5.139E-03	.2095	6.632E-03	.2704	7.759E-03	.3164	6.035E-03	.2461
10.81	.209	741.15	5.617E-03	.2290	7.297E-03	.2975	8.579E-03	.3498	6.623E-03	.2700
11.24	.217	754.42	6.131E-03	.2500	8.022E-03	.3271	9.484E-03	.3867	7.260E-03	.2960
11.67	.226	772.80	6.882E-03	.2806	9.100E-03	.3711	1.085E-02	.4424	8.201E-03	.3344
12.10	.234	785.42	7.427E-03	.3029	9.898E-03	.4036	1.187E-02	.4841	8.892E-03	.3626
12.52	.242	793.66	7.798E-03	.3180	1.045E-02	.4260	1.259E-02	.5132	9.365E-03	.3819
12.94	.250	798.74	8.034E-03	.3276	1.080E-02	.4404	1.305E-02	.5319	9.667E-03	.3942
13.36	.258	799.64	8.076E-03	.3293	1.086E-02	.4430	1.313E-02	.5353	9.721E-03	.3964
13.78	.266	804.00	8.283E-03	.3378	1.118E-02	.4557	1.354E-02	.5520	9.988E-03	.4073
14.19	.274	804.48	8.500E-03	.3466	1.150E-02	.4691	1.397E-02	.5697	1.027E-02	.4187
14.60	.282	809.22	8.536E-03	.3481	1.156E-02	.4713	1.404E-02	.5727	1.032E-02	.4206
15.01	.290	808.99	8.525E-03	.3476	1.154E-02	.4706	1.402E-02	.5718	1.030E-02	.4201
15.41	.298	810.43	8.596E-03	.3505	1.165E-02	.4750	1.416E-02	.5776	1.039E-02	.4238
15.81	.306	810.86	8.616E-03	.3513	1.168E-02	.4763	1.421E-02	.5793	1.042E-02	.4249
16.21	.313	810.61	8.604E-03	.3509	1.166E-02	.4755	1.418E-02	.5783	1.040E-02	.4242

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
144	8	TILE INSERT	0.175	0	.015	1.678E 06	2.787E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	489.8	1310	39.32	39.99	30.00	-9.32	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0510	2.273	3819	4.485E-05	7.680E-08	2.230E 06	2.452E-02	73

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.959	2.464	11.576	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
15.61	.321	814.51	8.794E-03	.3586	1.195E-02	.4874	1.457E-02	.5940	1.065E-02	.4343
17.00	.329	814.65	8.801E-03	.3589	1.196E-02	.4878	1.458E-02	.5946	1.066E-02	.4347
17.39	.336	814.69	8.802E-03	.3589	1.197E-02	.4879	1.459E-02	.5948	1.066E-02	.4348
17.77	.344	815.31	8.833E-03	.3602	1.201E-02	.4898	1.465E-02	.5974	1.070E-02	.4364
18.16	.351	814.61	8.800E-03	.3588	1.196E-02	.4877	1.458E-02	.5945	1.066E-02	.4346
18.54	.358	813.79	8.760E-03	.3572	1.190E-02	.4852	1.450E-02	.5912	1.061E-02	.4325
18.92	.366	814.87	8.813E-03	.3594	1.198E-02	.4886	1.461E-02	.5956	1.068E-02	.4353
19.29	.373	813.98	8.770E-03	.3576	1.192E-02	.4858	1.452E-02	.5920	1.062E-02	.4330
19.66	.380	812.25	8.686E-03	.3542	1.179E-02	.4806	1.435E-02	.5850	1.051E-02	.4285
20.03	.387	814.36	8.788E-03	.3584	1.194E-02	.4870	1.456E-02	.5936	1.064E-02	.4340
20.40	.394	815.79	8.857E-03	.3611	1.205E-02	.4913	1.470E-02	.5993	1.073E-02	.4376
20.76	.401	816.99	8.918E-03	.3636	1.214E-02	.4951	1.482E-02	.6044	1.081E-02	.4409
21.12	.408	818.54	8.994E-03	.3667	1.226E-02	.4999	1.498E-02	.6109	1.091E-02	.4450
21.48	.415	815.42	8.841E-03	.3605	1.202E-02	.4903	1.466E-02	.5980	1.071E-02	.4368
21.84	.422	814.62	8.803E-03	.3589	1.197E-02	.4879	1.459E-02	.5947	1.066E-02	.4347
22.19	.429	816.43	8.891E-03	.3625	1.210E-02	.4935	1.477E-02	.6022	1.078E-02	.4395
22.54	.436	817.42	8.940E-03	.3645	1.218E-02	.4965	1.487E-02	.6063	1.084E-02	.4421
22.88	.442	814.61	8.802E-03	.3589	1.196E-02	.4879	1.458E-02	.5947	1.066E-02	.4347
23.23	.449	814.64	8.815E-03	.3594	1.198E-02	.4887	1.461E-02	.5958	1.068E-02	.4354
23.57	.456	817.55	8.947E-03	.3648	1.219E-02	.4969	1.488E-02	.6068	1.085E-02	.4424
23.91	.462	816.59	8.900E-03	.3629	1.212E-02	.4940	1.479E-02	.6029	1.079E-02	.4399
24.24	.469	814.03	8.775E-03	.3578	1.192E-02	.4862	1.453E-02	.5924	1.063E-02	.4333

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
144	8	TILE INSERT	0.175	0	.015	1.678E 06	2.787E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	489.8	1310	39.32	39.99	30.00	-9.32	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0510	2.273	3819	4.485E-05	7.680E-08	2.230E 06	2.452E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.959	2.464	11.576	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.934TO)	H(.934TO)/HREF
24.57	.475	816.35	8.889E-03	.3625	1.210E-02	.4933	1.476E-02	.6019	1.077E-02	.4393
24.90	.481	814.32	8.790E-03	.3584	1.195E-02	.4871	1.456E-02	.5936	1.064E-02	.4341
25.23	.488	811.79	8.668E-03	.3534	1.176E-02	.4794	1.431E-02	.5834	1.049E-02	.4276
25.55	.494	804.69	8.323E-03	.3394	1.123E-02	.4581	1.362E-02	.5552	1.004E-02	.4094
25.87	.500	672.61	3.263E-03	.1330	4.106E-03	.1674	4.716E-03	.1923	3.774E-03	.1539

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
144	8	TILE INSERT	0.175	0	.015	1.678E 06	2.787E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	489.8	1310	39.32	39.99	30.00	-9.32	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0510	2.273	3819	4.485E-05	7.680E-08	2.230E 06	2.452E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
12.959	2.464	11.576	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.081	521.46	520.83	518.86	518.98	518.83	518.71	518.83	518.98	518.86	521.43
2.077	525.31	525.10	521.64	521.40	520.32	519.61	519.43	519.31	520.26	523.55
3.074	528.11	528.02	523.79	523.34	521.61	520.38	520.02	519.72	522.11	525.89
4.070	530.49	530.37	525.67	525.08	522.72	521.10	520.56	520.14	524.00	528.04
5.067	532.60	532.39	527.37	526.59	523.74	521.82	521.07	520.59	525.93	530.06
6.064	534.46	534.23	528.85	528.02	524.78	522.48	521.55	521.01	527.68	532.03
7.060	536.18	535.88	530.25	529.38	525.70	523.11	522.03	521.40	529.61	533.95
8.057	537.80	537.42	531.53	530.58	526.62	523.70	522.48	521.73	531.63	536.10
9.053	539.30	538.86	532.74	531.77	527.52	524.30	522.93	522.15	533.55	537.97
10.050	540.69	540.22	533.96	532.89	528.38	524.90	523.37	522.54	535.43	539.94
11.046	542.04	541.54	535.05	534.02	529.24	525.52	523.79	522.93	537.13	541.81
11.558	542.69	542.16	535.59	534.55	529.66	525.79	524.00	523.11	538.20	542.74
12.043	543.31	542.75	536.12	535.08	530.07	526.09	524.24	523.28	539.00	543.63
13.040	544.51	543.92	537.18	536.09	530.85	526.65	524.66	523.64	540.96	545.63
14.036	545.68	545.04	538.18	537.18	531.94	527.25	525.13	524.06	542.87	547.63
15.033	546.80	546.12	539.10	538.07	532.45	527.85	525.55	524.42	544.56	549.22

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
144	8	TILE INSERT	0.175	0	.015	1.678E 06	2.787E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	489.8	1310	39.32	39.99	30.00	-9.32	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
95.4	.0510	2.273	3819	4.485E-05	7.680E-08	2.230E 06	2.452E-02	73

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.959	2.464	11.576	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
1.844	1
5.812	2
11.485	3

AEDC (ARO, INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

NASA/RI 0H69
V41H-E9A

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
145	8	TILE INSERT	0.175	0	.015	1.476E 06	2.451E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	423.9	1296	29.61	30.00	30.00	.39	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0441	1.967	3799	3.623E-05	7.599E-08	1.961E 06	2.277E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
24.452	2.441	23.081	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.56	.185	591.1[illegible]	7.783E-04	.0342	9.536E-04	.0419	1.075E-03	.0472	9.277E-04	.0407
9.95	.192	667.86	2.204E-03	.0968	2.777E-03	.1219	3.192E-03	.1402	2.690E-03	.1181
10.33	.200	69[illegible].57	2.726E-03	.1197	3.468E-03	.1523	4.014E-03	.1763	3.354E-03	.1473
10.71	.207	703.85	3.046E-03	.1337	3.899E-03	.1712	4.533E-03	.1991	3.768E-03	.1654
11.10	.214	715.58	3.418E-03	.1501	4.407E-03	.1935	5.152E-03	.2262	4.254E-03	.1868
11.48	.222	732.97	3.797E-03	.1667	4.931E-03	.2165	5.798E-03	.2546	4.755E-03	.2088
11.85	.229	73[illegible].1[illegible]	3.938E-03	.1729	5.129E-03	.2252	6.043E-03	.2653	4.943E-03	.2171
12.23	.236	748.49	4.224E-03	.1855	5.533E-03	.2430	6.548E-03	.2875	5.328E-03	.2340
12.60	.244	75[illegible].75	4.519E-03	.1984	5.954E-03	.2615	7.079E-03	.3108	5.728E-03	.2515
12.98	.251	766.81	4.758E-03	.2089	6.300E-03	.2766	7.518E-03	.3301	6.056E-03	.2659
13.35	.258	772.21	4.922E-03	.2161	6.534E-03	.2871	7.824E-03	.3436	6.282E-03	.2759
13.72	.265	779.49	5.148E-03	.2261	6.871E-03	.3017	8.253E-03	.3624	6.597E-03	.2897
14.08	.272	784.82	5.318E-03	.2335	7.123E-03	.3128	8.578E-03	.3767	6.835E-03	.3001
14.45	.279	788.55	5.439E-03	.2389	7.304E-03	.3207	8.814E-03	.3870	7.006E-03	.3076
14.81	.286	789.72	5.478E-03	.2405	7.361E-03	.3232	8.889E-03	.3903	7.059E-03	.3100
15.17	.293	79[illegible].59	5.506E-03	.2418	7.403E-03	.3251	8.944E-03	.3928	7.100E-03	.3118
15.53	.300	791.84	5.548E-03	.2436	7.467E-03	.3279	9.028E-03	.3964	7.160E-03	.3144
15.89	.307	791.93	5.551E-03	.2438	7.471E-03	.3280	9.032E-03	.3966	7.163E-03	.3145
16.25	.314	793.64	5.608E-03	.2462	7.556E-03	.3318	9.144E-03	.4015	7.243E-03	.3181
16.60	.321	797.92	5.752E-03	.2526	7.774E-03	.3414	9.431E-03	.4141	7.449E-03	.3271
16.96	.328	794.62	5.810E-03	.2551	7.862E-03	.3452	9.547E-03	.4192	7.531E-03	.3307

NASA/RI 0469
V41B-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE 12/08/75
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
145	8	TILE INSERT	0.175	0	.015	1.476E 06	2.451E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	423.9	1296	29.61	30.00	30.00	.39	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0441	1.967	3799	3.523E-05	7.599E-08	1.961E 06	2.277E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
24.452	2.441	23.081	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.31	.335	799.57	5.809E-03	.2551	7.859E-03	.3451	9.544E-03	.4191	7.529E-03	.3306
17.66	.341	799.58	5.809E-03	.2551	7.860E-03	.3451	9.545E-03	.4191	7.530E-03	.3306
18.01	.348	799.62	5.810E-03	.2551	7.862E-03	.3452	9.547E-03	.4192	7.532E-03	.3307
18.35	.355	799.33	5.801E-03	.2547	7.847E-03	.3446	9.528E-03	.4184	7.518E-03	.3301
18.70	.361	801.37	5.837E-03	.2563	7.902E-03	.3470	9.600E-03	.4215	7.569E-03	.3324
19.04	.368	801.65	5.881E-03	.2582	7.968E-03	.3499	9.688E-03	.4254	7.632E-03	.3351
19.38	.375	799.46	5.806E-03	.2549	7.854E-03	.3449	9.537E-03	.4188	7.525E-03	.3304
19.72	.381	798.83	5.784E-03	.2540	7.822E-03	.3435	9.494E-03	.4169	7.494E-03	.3291
20.06	.388	801.03	5.860E-03	.2573	7.937E-03	.3485	9.646E-03	.4236	7.602E-03	.3338
20.39	.394	802.55	5.912E-03	.2596	8.016E-03	.3520	9.751E-03	.4282	7.677E-03	.3371
20.73	.401	803.37	5.941E-03	.2609	8.060E-03	.3539	9.810E-03	.4307	7.718E-03	.3389
21.06	.407	805.33	6.010E-03	.2639	8.165E-03	.3585	9.949E-03	.4369	7.817E-03	.3432
21.39	.413	804.12	5.967E-03	.2620	8.100E-03	.3557	9.863E-03	.4331	7.756E-03	.3406
21.72	.420	803.51	5.911E-03	.2596	8.015E-03	.3519	9.750E-03	.4281	7.676E-03	.3371
22.05	.426	802.28	5.903E-03	.2592	8.003E-03	.3514	9.734E-03	.4274	7.665E-03	.3366
22.37	.432	804.25	5.974E-03	.2623	8.110E-03	.3561	9.876E-03	.4336	7.765E-03	.3410
22.69	.439	803.95	5.960E-03	.2617	8.089E-03	.3552	9.848E-03	.4324	7.745E-03	.3401
23.02	.445	801.50	5.877E-03	.2580	7.962E-03	.3496	9.679E-03	.4250	7.626E-03	.3349
23.34	.451	802.61	5.915E-03	.2597	8.021E-03	.3522	9.758E-03	.4285	7.681E-03	.3373
23.65	.457	804.47	5.980E-03	.2626	8.120E-03	.3566	9.889E-03	.4342	7.775E-03	.3414
23.97	.463	803.69	5.953E-03	.2614	8.078E-03	.3547	9.833E-03	.4318	7.735E-03	.3396
24.29	.469	802.12	5.898E-03	.2590	7.995E-03	.3511	9.723E-03	.4270	7.657E-03	.3362

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
145	8	TILE INSERT	0.175	0	.015	1.476E 06	2.451E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	423.9	1296	29.61	30.00	30.00	.39	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0441	1.967	3799	3.923E-05	7.599E-08	1.961E 06	2.277E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
24.452	2.441	23.081	1000

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.60	.475	803.28	5.939E-03	.2608	8.057E-03	.3538	9.805E-03	.4306	7.715E-03	.3388
24.91	.482	800.33	5.837E-03	.2563	7.901E-03	.3470	9.599E-03	.4215	7.569E-03	.3324
25.22	.487	797.48	5.739E-03	.2520	7.754E-03	.3405	9.404E-03	.4129	7.430E-03	.3263
25.53	.493	791.20	5.529E-03	.2428	7.437E-03	.3266	8.988E-03	.3947	7.131E-03	.3132
25.83	.499	706.28	3.109E-03	.1365	3.984E-03	.1749	4.637E-03	.2036	3.850E-03	.1690

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
145	B	TILE INSERT	0.175	0	.015	1.476E 06	2.451E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	423.9	1296	29.61	30.00	30.00	.39	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0441	1.967	3799	3.923E-05	7.599E-08	1.961E 06	2.277E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
24.452	2.441	23.081	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.071	521.34	520.32	518.20	518.29	518.26	518.32	518.47	518.59	529.75	530.24
2.067	525.16	524.24	520.56	520.26	519.40	518.95	518.92	518.86	530.33	530.78
3.064	527.90	527.04	522.51	521.91	520.38	519.52	519.34	519.16	530.64	531.14
4.060	530.16	529.30	524.18	523.40	521.28	520.05	519.69	519.46	531.05	531.63
5.057	532.15	531.17	525.67	524.78	522.12	520.56	520.05	519.69	531.58	532.21
6.054	533.93	532.92	527.04	526.03	522.96	521.01	520.35	519.96	532.12	532.70
7.050	535.53	534.46	528.35	527.22	523.79	521.52	520.68	520.26	532.57	533.28
8.047	537.06	535.88	529.51	528.32	524.57	522.00	521.04	520.53	532.93	533.69
9.043	538.45	537.24	530.61	529.42	525.34	522.45	521.34	520.77	533.37	534.18
10.040	539.75	538.48	531.68	530.46	526.12	522.93	521.67	521.01	534.04	534.76
11.036	540.98	539.69	532.71	531.44	526.86	523.40	521.97	521.28	534.54	535.38
12.033	542.16	540.81	533.66	532.39	527.61	523.88	522.30	521.55	535.03	535.79
13.030	543.28	541.90	534.64	533.31	528.35	524.36	522.66	521.85	535.43	536.19
14.026	544.30	542.92	535.41	534.20	529.06	524.87	522.99	522.09	535.83	536.72
15.023	545.33	543.92	536.12	535.08	529.75	525.31	523.31	522.36	536.41	537.30
16.019	546.30	544.89	536.94	535.91	530.46	525.79	523.64	522.60	536.99	537.80
17.016	547.24	545.80	537.80	536.74	531.14	526.27	524.00	522.90	537.48	538.38
18.012	548.14	546.68	538.66	537.54	531.83	526.77	524.36	523.19	537.80	538.73
19.009	548.99	547.53	539.42	538.30	532.48	527.28	524.69	523.46	538.33	539.18
20.006	549.87	548.35	540.13	539.07	533.13	527.76	525.08	523.73	538.87	539.76
21.002	550.66	549.17	540.95	539.81	533.81	528.23	525.40	524.03	539.40	540.20

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
145	8	TILE INSERT	0.175	0	.015	1.476E 06	2.451E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	423.9	1296	29.61	30.00	30.00	.39	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0441	1.967	3799	3.923E-05	7.599E-08	1.961E 06	2.277E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
24.452	2.441	23.081	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
21.999	551.45	549.93	541.75	540.54	534.43	528.71	525.76	524.33	539.71	540.65
22.945	551.83	550.69	542.48	541.25	535.08	529.18	526.12	524.63	540.11	541.05
23.064	552.26	550.75	542.51	541.28	535.11	529.21	526.15	524.66	540.20	541.18
23.992	552.93	551.42	543.19	541.95	535.70	529.69	526.51	524.93	540.56	541.45
24.988	553.69	552.12	543.84	542.63	536.32	530.16	526.86	525.19	541.14	542.07
25.985	554.39	552.85	544.69	543.31	536.94	530.67	527.25	525.52	541.67	542.56

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
145	8	TILE INSERT	0.175	0	.015	1.476E 06	2.451E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	423.9	1296	29.61	30.00	30.00	.39	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.4	.0441	1.967	3799	3.923E-05	7.599E-08	1.961E 06	2.277E-02	76

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
24.452	2.441	23.091	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
3.663	1
10.611	2
23.000	3

NASA/RI OH69
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
146	8	TILE INSERT	0.175	0	.015	1.476E 06	2.452E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.4	1299	39.42	40.01	30.00	-9.42	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0443	1.974	3803	3.928E-05	7.616E-08	1.962E 06	2.282E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.983	2.446	16.610	1000

*** NO INFRARED DATA ***

NASA/RI OH69
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/05/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
146	8	TILE INSERT	0.175	0	.015	1.476E 06	2.452E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.4	1299	39.42	40.01	30.00	-9.42	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0443	1.974	3803	3.928E-05	7.616E-08	1.962E 06	2.282E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.983	2.446	16.610	1000

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.073	520.86	520.23	518.47	518.68	518.98	518.89	519.25	519.67	525.48	527.28
2.069	524.54	524.21	520.98	520.95	520.23	519.69	519.81	519.96	526.83	528.85
3.066	527.19	526.98	522.96	522.78	521.43	520.47	520.38	520.41	528.45	530.73
4.062	529.36	529.15	524.69	524.36	522.51	521.16	520.89	520.66	529.97	532.39
5.059	531.29	531.05	526.24	525.79	523.46	521.82	521.34	521.25	531.58	534.09
6.056	533.04	532.71	527.67	527.10	524.42	522.42	521.79	521.61	533.33	535.79
7.052	534.67	534.28	528.98	528.35	525.31	522.99	522.24	521.97	534.98	537.53
8.049	536.12	535.73	530.22	529.51	526.21	523.55	522.66	522.33	536.55	539.09
9.045	537.56	537.06	531.41	530.61	527.04	524.12	523.11	522.72	538.06	540.65
10.042	538.83	538.36	532.51	531.71	527.90	524.69	523.49	523.05	539.58	542.12
11.038	540.10	539.57	533.57	532.69	528.68	525.22	523.88	523.37	541.40	543.67
12.035	541.28	540.72	534.61	533.69	529.48	525.76	524.30	523.70	543.05	545.36
13.032	542.42	541.81	535.59	534.67	530.28	526.30	524.69	524.09	544.61	546.87
14.028	543.51	542.87	536.47	535.59	531.02	526.86	525.10	524.45	546.03	548.25
14.645	544.16	543.51	536.97	536.15	531.50	527.22	525.37	524.66	547.05	549.22
15.025	544.54	543.86	537.27	536.47	531.77	527.40	525.49	524.75	547.58	549.80
16.021	545.54	544.83	538.07	537.36	532.54	527.93	525.91	525.08	549.27	551.30
17.018	546.47	545.80	538.83	538.18	533.25	528.47	526.30	525.43	550.82	552.85
18.014	547.38	546.68	539.60	539.01	533.99	529.00	526.71	525.76	552.32	554.36

NASA/RI 0h69
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
146	B	TILE INSERT	0.175	0	.015	1.476E 06	2.452E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.98	425.4	1299	39.42	40.01	30.00	-9.42	40.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.6	.0443	1.974	3803	3.528E-05	7.616E-08	1.962E 06	2.282E-02	75

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
17.983	2.446	16.610	1000

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
2.412	1
8.620	2
14.782	3

NASA/RI 0H49
V418-E9A

AEDC (ARO,INC.) ARNOLD AFS, TENNESSEE
VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

12/08/75

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
147	8	TILE INSERT	0.175	0	.015	1.310E 06	2.177E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.7	1296	29.66	30.00	30.00	.34	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0393	1.749	3797	3.490E-05	7.612E-08	1.741E 06	2.147E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.794	2.446	11.421	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
9.95	.192	623.28	1.797E-03	.0837	2.226E-03	.1037	2.528E-03	.1177	2.162E-03	.1007
10.33	.200	645.36	2.383E-03	.1110	2.975E-03	.1386	3.398E-03	.1583	2.886E-03	.1344
10.71	.207	653.42	2.609E-03	.1215	3.269E-03	.1523	3.742E-03	.1743	3.169E-03	.1476
11.10	.214	664.70	2.945E-03	.1372	3.706E-03	.1726	4.256E-03	.1982	3.591E-03	.1673
11.48	.222	674.21	3.309E-03	.1541	4.185E-03	.1949	4.822E-03	.2246	4.051E-03	.1887
11.85	.229	684.92	3.593E-03	.1674	4.561E-03	.2124	5.270E-03	.2455	4.413E-03	.2056
12.23	.236	692.98	3.863E-03	.1799	4.920E-03	.2292	5.701E-03	.2655	4.759E-03	.2216
12.60	.244	700.07	4.105E-03	.1912	5.246E-03	.2444	6.093E-03	.2838	5.071E-03	.2362
12.98	.251	705.27	4.286E-03	.1996	5.491E-03	.2558	6.390E-03	.2976	5.306E-03	.2471
13.35	.258	709.88	4.413E-03	.2056	5.664E-03	.2638	6.599E-03	.3074	5.471E-03	.2548
13.72	.265	713.61	4.582E-03	.2134	5.894E-03	.2745	6.879E-03	.3204	5.692E-03	.2651
14.08	.272	715.60	4.763E-03	.2219	6.142E-03	.2861	7.182E-03	.3345	5.929E-03	.2762
14.45	.279	720.84	4.845E-03	.2257	6.255E-03	.2913	7.320E-03	.3410	6.037E-03	.2812
14.81	.286	722.34	4.991E-03	.2283	6.332E-03	.2949	7.415E-03	.3454	6.111E-03	.2846
15.17	.293	724.67	4.987E-03	.2323	6.450E-03	.3004	7.560E-03	.3521	6.223E-03	.2899
15.53	.300	725.70	5.025E-03	.2340	6.503E-03	.3029	7.625E-03	.3552	6.274E-03	.2922
15.89	.307	725.59	5.021E-03	.2339	6.497E-03	.3026	7.618E-03	.3548	6.268E-03	.2920
16.25	.314	727.59	5.096E-03	.2373	6.601E-03	.3075	7.746E-03	.3608	6.368E-03	.2966
16.60	.321	732.24	5.272E-03	.2456	6.847E-03	.3189	8.049E-03	.3749	6.602E-03	.3075
16.96	.328	734.05	5.341E-03	.2488	6.942E-03	.3234	8.167E-03	.3804	6.693E-03	.3117
17.31	.335	733.68	5.327E-03	.2481	6.923E-03	.3224	8.142E-03	.3792	6.674E-03	.3109

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
147	8	TILE INSERT	0.175	0	.015	1.310E 06	2.177E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.7	1296	29.66	30.00	30.00	.34	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0393	1.749	3797	3.490E-05	7.612E-08	1.741E 06	2.147E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSITIVITY
12.794	2.446	11.421	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
17.66	.341	733.45	5.318E-03	.2477	6.911E-03	.3219	8.128E-03	.3786	6.663E-03	.3103
18.01	.348	733.72	5.328E-03	.2482	6.925E-03	.3226	8.146E-03	.3794	6.677E-03	.3110
18.35	.355	733.52	5.321E-03	.2476	6.915E-03	.3221	8.133E-03	.3788	6.667E-03	.3105
18.70	.361	733.31	5.313E-03	.2475	6.904E-03	.3216	8.119E-03	.3782	6.656E-03	.3100
19.04	.368	734.08	5.381E-03	.2506	6.998E-03	.3260	8.236E-03	.3836	6.746E-03	.3142
19.38	.375	734.59	5.362E-03	.2498	6.973E-03	.3248	8.204E-03	.3821	6.722E-03	.3131
19.72	.381	733.92	5.299E-03	.2468	6.884E-03	.3206	8.094E-03	.3770	6.637E-03	.3091
20.06	.388	734.12	5.345E-03	.2489	6.948E-03	.3236	8.174E-03	.3807	6.698E-03	.3120
20.39	.394	735.48	5.396E-03	.2513	7.019E-03	.3269	8.262E-03	.3848	6.766E-03	.3151
20.73	.401	736.67	5.443E-03	.2535	7.085E-03	.3300	8.344E-03	.3886	6.829E-03	.3181
21.06	.407	738.36	5.508E-03	.2566	7.177E-03	.3343	8.458E-03	.3939	6.917E-03	.3222
21.39	.413	738.24	5.504E-03	.2563	7.170E-03	.3340	8.450E-03	.3936	6.910E-03	.3219
21.72	.420	736.38	5.432E-03	.2530	7.070E-03	.3293	8.325E-03	.3878	6.815E-03	.3174
22.05	.426	736.46	5.435E-03	.2532	7.075E-03	.3295	8.331E-03	.3880	6.819E-03	.3176
22.37	.432	737.82	5.487E-03	.2556	7.147E-03	.3329	8.421E-03	.3922	6.888E-03	.3208
22.69	.439	738.09	5.499E-03	.2561	7.163E-03	.3336	8.441E-03	.3931	6.904E-03	.3215
23.02	.445	736.38	5.433E-03	.2530	7.071E-03	.3293	8.326E-03	.3878	6.816E-03	.3174
23.34	.451	736.99	5.453E-03	.2540	7.099E-03	.3306	8.361E-03	.3894	6.842E-03	.3187
23.65	.457	738.77	5.525E-03	.2573	7.200E-03	.3354	8.487E-03	.3953	6.939E-03	.3232
23.97	.463	738.75	5.525E-03	.2573	7.200E-03	.3353	8.486E-03	.3953	6.938E-03	.3232
24.29	.469	736.91	5.454E-03	.2540	7.100E-03	.3307	8.363E-03	.3895	6.844E-03	.3188
24.60	.475	737.09	5.461E-03	.2543	7.110E-03	.3312	8.375E-03	.3901	6.853E-03	.3192

NASA/RI 0H69
V41B-E9A

VON KARMAN GAS DYNAMICS FACILITY
50 INCH HYPERSONIC TUNNEL B

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
147	8	TILE INSERT	0.175	0	.015	1.310E 06	2.177E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.7	1296	29.66	30.00	30.00	.34	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0393	1.749	3797	3.490E-05	7.612E-08	1.741E 06	2.147E-02	80

TOTAL TIME, SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.794	2.446	11.421	500

X (IN)	X/L	TW (DEG R)	H(TO)	H(TO)/HREF	H(0.9TO)	H(.9TO)/HREF	H(.85TO)	H(.85TO)/HREF	H(.912TO)	H(.912TO)/HREF
24.91	.482	736.85	5.451E-03	.2539	7.097E-03	.3306	8.359E-03	.3893	6.840E-03	.3186
25.22	.487	732.81	5.289E-03	.2464	6.870E-03	.3200	8.078E-03	.3762	6.624E-03	.3085
25.53	.493	729.91	5.187E-03	.2416	6.728E-03	.3134	7.902E-03	.3680	6.489E-03	.3022
25.83	.499	707.13	4.356E-03	.2029	5.586E-03	.2602	6.504E-03	.3029	5.397E-03	.2514
26.14	.505	566.06	4.963E-04	.0231	6.034E-04	.0281	6.765E-04	.0315	5.877E-04	.0274

L = 4.311 FT

GROUP	CONFIG	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
147	8	TILE INSERT	0.175	0	.015	1.310E 06	2.177E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.7	1296	29.66	30.00	30.00	.34	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0393	1.749	3797	3.490E-05	7.612E-08	1.741E 06	2.147E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.754	2.446	11.421	500

TIME (SEC)	T1 (DEG R)	T2 (DEG R)	T3 (DEG R)	T4 (DEG R)	T5 (DEG R)	T6 (DEG R)	T7 (DEG R)	T8 (DEG R)	T9 (DEG R)	T10 (DEG R)
1.073	520.17	519.28	516.94	517.54	517.93	517.99	518.23	518.56	525.98	526.60
2.069	523.52	522.96	519.19	519.43	518.92	518.68	518.71	518.86	526.47	526.92
3.066	526.00	525.49	521.01	521.01	519.87	519.28	519.13	519.19	526.74	527.32
4.062	528.02	527.64	522.60	522.42	520.77	519.78	519.52	519.46	527.19	527.82
5.059	529.75	529.45	524.03	523.70	521.61	520.29	519.87	519.75	527.68	528.31
6.056	531.32	531.05	525.37	524.93	522.42	520.80	520.23	520.08	528.00	528.76
7.052	532.83	532.60	526.65	526.09	523.25	521.28	520.56	520.38	528.36	529.07
8.049	534.25	533.96	527.82	527.16	524.00	521.79	520.92	520.65	528.71	529.52
9.045	535.62	535.26	528.95	528.20	524.79	522.24	521.25	520.92	529.16	529.93
10.042	536.89	536.53	529.99	529.21	525.52	522.72	521.58	521.22	529.70	530.51
11.038	538.04	537.65	530.99	530.16	526.27	523.19	521.91	521.52	530.02	530.82
11.404	538.45	538.10	531.32	530.52	526.54	523.37	522.06	521.61	530.15	531.00
12.035	539.13	538.77	531.86	531.11	526.98	523.67	522.27	521.79	530.37	531.09
13.032	540.19	539.84	532.69	532.00	527.70	524.15	522.63	522.06	530.73	531.58
14.028	541.19	540.84	533.57	532.83	528.74	524.57	522.90	522.36	531.27	532.12

L = 4.311 FT

GROUP	CONFIG.	*** MODEL DESCRIPTION ***	TILE LOCATION/SIZE, X/L	GAP	K	REX	REK
147	8	TILE INSERT	0.175	0	.015	1.310E 06	2.177E 03

MACH NO.	PO (PSIA)	TO (DEG R)	ALPHA-MODEL UNCORRECTED	ALPHA-MODEL CORRECTED	ALPHA-PREBEND	ALPHA-SECTOR	ALPHA-NOM	YAW
7.97	374.7	1296	29.66	30.00	30.00	.34	30.00	0

T - INF (DEG R)	P - INF (PSIA)	Q - INF (PSIA)	V - INF (FT/SEC)	RHO - INF (SLUG/FT3)	MU - INF (LB-SEC/FT2)	RE/FT (FT-1)	HREF (R=0.040FT)	INITIAL TEMP (DEG F)
94.5	.0393	1.749	3797	3.490E-05	7.612E-08	1.741E 06	2.147E-02	80

TOTAL TIME SECONDS	INJECT TIME SECONDS	DELT SECONDS	MONITOR SENSIVITY
12.754	2.446	11.421	500

PHOTOGRAPH TIME HISTORY

TIME (SEC)	PHOTOGRAPH NUMBER
1.804	1
6.961	2
11.427	3